EXTENT AND SOURCE OF SALTWATER INTRUSION INTO THE ALLUVIAL AQUIFER NEAR BRINKLEY, ARKANSAS, 1984

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CONVERSION FACTORS

For use of readers who prefer to use metric units, conversion factors for terms used in this report are listed below:

Multiply	<u>By</u>	To obtain
foot (ft)	0.3048	meter (m)
gallon per minute (gal/min)	0.0630	liter per second (L/s)
million gallon per day (Mgal/d)	0.0438	cubic meter per second (m ³ /s)
square mile (mi ²)	2.590	square kilometer (km²)

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}F = (1.8)(^{\circ}C) + 32$$

National Geodetic Vertical Datum of 1929 (NGVD of 1929): A geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, called NGVD of 1929, is referred to as sea level in this report.

EXTENT AND SOURCE OF SALTWATER INTRUSION INTO THE ALLUVIAL AQUIFER

NEAR BRINKLEY, ARKANSAS, 1984

by E. E. Morris and W. V. Bush

ABSTRACT

An appproximate area of 56 square miles of the alluvial aquifer has been contaminated by saltwater (chloride concentration equal to or greater than 50 milligrams per liter) intruded from underlying aquifers. The contamination was mapped from water quality data for 217 wells. Saltwater problems appear to have spread rapidly in the alluvial aquifer since the late 1940's. Chemical comparisons indicate that the alluvial aquifer was contaminated by water from the Sparta aquifer which in turn was contaminated by the underlying Nacatoch aquifer.

The possibility of intrusion into the alluvial aquifer through abandoned oil and gas test wells was investigated but no evidence could be found to support this possibility. Upward movement into the alluvial aquifer from the underlying Sparta aquifer through the thinned or absent Jackson confining unit appears to be the principal reason for saltwater in the alluvial aquifer. Increased withdrawals of water from the alluvial aquifer for irrigation and public supply appear to have contributed to this upward movement.

INTRODUCTION

Purpose and Scope

This study, in cooperation with the Arkansas Geological Commission, was conducted to determine the areal extent of saltwater intrusion into the alluvial aquifer in the vicinity of Brinkley, Arkansas. In this report that part of the aquifer where water contains chloride concentrations greater than 50 mg/L is considered affected by saltwater intrusion. As a secondary objective, an attempt was made to determine the source(s) and mechanism(s) of saltwater intrusion into the aquifer. This required that a description of the hydrology of deeper formations be included in the study. Particular attention was given to the hydrology of the Sparta Sand and the intrusion of saltwater into this formation.

Methods of Investigation

The extent and magnitude of saltwater in the alluvial aquifer were largely determined through the collection and analysis of aquifer water-quality data. During the period 1946-84, water samples were collected from 205 wells which tap the alluvial aquifer, 8 wells penetrating the Sparta aquifer, 2 wells which penetrate the Cockfield aquifer, and 1 well each in the Memphis aquifer and Nacatoch aquifer. The analyses of these samples are shown in attachment A, referenced by well number. The majority of samples were collected during the period 1974-84. In addition to the collection of water-quality samples, numerous water-level measurements were made during these same periods.

Both the collection of water-quality samples and the measurement of water levels were completed according to guidelines set forth in the following manuals: Skougstad and others (1979), U.S. Geological Survey (1977), and Wood (1976).

Previous Investigations

Numerous State and Federal reports discuss the hydrology of the study area either directly or indirectly. Several reports discuss saltwater intrusion in the study area. The earliest known mention of a possible intrusion problem was by Stephenson and Crider (1916). They reported that a water sample collected from a well in the Claiborne Group (Sparta Sand) at Brinkley in 1904 contained a chloride concentration of 916 milligrams per liter (mg/L). Other reports mentioning the occurrence of saltwater in wells in the study area include Halberg and Reed (1964), Boswell and others (1968), Hosman and others (1968) and Broom and Lyford (1981).

Description of the Area

The study area (fig. 1) encompasses approximately 322 square miles (mi²) and includes parts of Monroe, St. Francis, and Woodruff Counties. The area is located within the Mississippi alluvial plain. The plain, with little surface relief except at boundaries of stream flood plains and terraces, slopes southward. Surface altitudes range from a high of 215 feet above sea level, 7 miles north of Brinkley, to a low of 145 feet near White River at Clarendon. The principal streams in the area are Bayou Deview (a tributary to Cache River) and Cache River (a tributary to White River). Secondary drainage consists of swampy, low gradient streams.

Land use in the area is primarily agricultural. Most crops are irrigated by ground water. Some light industry that uses a small amount of ground water is located at Brinkley and at Clarendon, the county seat.

Well-Numbering System

Each well for which water-quality data are available in the study area is listed by aquifer and by local well number in attachment A of this report. These wells were also assigned a well number unique to this report. These unique well numbers and their locations are shown in figure 2. A well may also be located by the local well number. The local well number is based upon the location of the well according to the Federal land survey used in Arkansas. The component parts of a local well number include the township number, the range number, the section number, and three letters which indicate, respectively, the quarter section, the quarter-quarter section, and the quarter-quarter section in which the well is located. ters are assigned counter clockwise, beginning with "A" in the northeast quarter or quarter-quarter or quarter-quarter section in which the well is located. For example, well 04N02WllBCC16 (fig. 3) is located in Township 4 North, Range 2 West, and in the southwest quarter of the southwest quarter of the northwest quarter of section 11. This well is the 16th well in this quarter-quarter section (10 acre tract) of section 11 at which data were collected.

Acknowledgments

The authors wish to thank Mr. Buck Files and Mr. Wayne Roediger for permission to drill test wells on their farms. Thanks are extended to the many farmers in the Brinkley area who provided assistance in sampling of their irrigation and domestic wells. Thanks are extended to Joe Edds and John Yanchosek, hydrologic technicians for the Arkansas District, U.S. Geological Survey, for the many days spent collecting, analyzing and storing data.

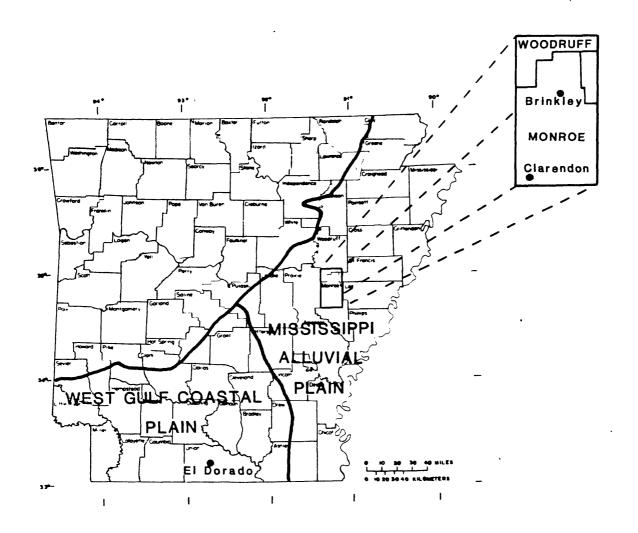


Figure 1.--Location of study area.

HYDROGEOLOGIC SETTING

A generalized geologic column representing sediments in the study area is shown in table 1. Quaternary alluvial and terrace deposits cover the entire surface of the study area to an average depth of 125 feet and contain the alluvial aquifer which is the most important aquifer in the area. Underlying the alluvial deposits are approximately 2,800 feet of Tertiary through Upper Cretaceous sediments, which, in turn are underlain by Paleozoic sedimentary rocks. The strata below the alluvial deposits dip to the southeast at less than 1° and most of the units thicken in the same direction.

The lack of adequate subsurface control prevented the mapping of any significant structural features that might contribute to the movement of saltwater. Just north of the study area in sections 7 and 18, T. 5 N., R. 2 W, in Woodruff County, Caplan (1954) indicated the possibility of either a normal fault, downthrown to the north and trending northwest-southeast, or of a small graben. This fault, or graben, does not appear to have any effect on the saltwater problem, but does indicate the possibility of additional faulting in the study area.

Quaternary Deposits

Quaternary deposits include terrace deposits of Pleistocene age and more recent alluvial deposits of Holocene age (table 1). Quaternary alluvial and terrace deposits range in thickness from about 100 to 160 feet, and average approximately 125 feet. The uppermost deposits form a silty or fine sandy clay cap. This clay cap is typically about 20 feet thick, but may thin to 10 feet or less and, in some low lying areas, may be absent. These deposits grade downward into fine-grained to coarse sand, which in turn grades into approximately 30 feet of sand and gravel at the base of the Quaternary deposits. Thin, lenticular layers of silty clay are scattered throughout the sediments, but do not appear to serve as confining beds. The coarser materials of the Quaternary deposits which generally underlie the clay cap constitute the alluvial aquifer. The alluvial aquifer is the most important aquifer in the study area and provides large quantities of water for irrigation and public supply.

Jackson Group

Sediments of the Tertiary Jackson Group undifferentiated underlie most of the study area (table 1). Thickness of this unit averages about 30 feet, but may range from near zero to a maximum of about 50 feet. Accurate determinations of unit extent and thickness are difficult to determine because of the limited amount of subsurface data. In the study area the lithology of the Jackson Group consists almost entirely of clay, silty clay, and minor amounts of silt and very fine sand. Where present, it acts as a confining bed between the alluvial aquifer and the Sparta aquifer.

Table 1.--Generalized geologic column in the vicinity of Brinkley, Arkansas

Erathem	System	Series	Group	Formation	Maximum thickness (feet)	Lithologic description
·	Quaternary	Holocene '		Alluvial deposits Terrace deposits	160	Clay, silt, sand and gravel. Includes alluvial aquifer.
			Jackson	Undifferentiated	50	Mostly clay with some fine sand and silt. Includes Jackson confining bed.
				Cockfield and Cook Mountain Formations	250	Interbedded sand, silt, and clay. Sandier near the top. Includes Cockfield aquifer.
Cenozoic	Tertiary	Eocene	Claiborne	Sparta Sand	400	Sand, clay, and silt, interbedded. Fine to medium sand in upper part with fine to coarse sand in the lower part, separated by a clay. Includes Sparta aquifer.
			;	Cane River Forma- tion and Carrizo Sand	750	Clay, sand, and silt. Mostly sand near the base. Entire section gets sandier to the north, combining with the Sparta Sand to form the Memphis Sand. Includes Cane River aquifer and Carrizo aquifer. To the north the Sparta, Cane River, and Carrizo aquifers form the Memphis aquifer.
			Wilcox	Undifferentiated	600	Interbedded sand and clay. Includes Wilcox aquifer.
		Paleocene	Midway	Undifferentiated	500	Clay with some silt and lime.
Mesozoic	Cretaceous	Upper		Undifferentiated	900	Marl, sand, chalk and clay. Includes Nacatoch Sand.
Paleozoic		Un	differentia	, ated		Sandstone and shale.

Claiborne Group

The Tertiary Claiborne Group underlies the Jackson Group and attains an average thickness of 950 feet in the study area (table 1). In southern Arkansas the Claiborne Group has been subdivided into five formations. These formations listed from top to bottom include: the Cockfield Formation, Cook Mountain Formation, Sparta Sand, Cane River Formation, and Carrizo Sand. In the study area, the boundaries of these units are difficult to determine because of lack of subsurface data and rapid changes in lithology within the Claiborne Group.

The upper part of the Claiborne Group is composed of fine to medium sand, clay, silt, and lignitic clays which are assigned to the Cockfield and Cook Mountain Formations. The uppermost part is mostly sand of the Cockfield Formation and is locally referred to as the Cockfield aquifer. In some locations this sand may be absent, or clays of the underlying Cook Mountain Formation may contain interbedded and lenticular sand.

The Sparta Sand lies below the upper part of the Claiborne Group. It may be separated into an upper and a lower part. The base of the lower part is difficult to determine locally because of lithologic similarities to underlying sediments of the Cane River Formation. However, the lower part of the Sparta Sand, which includes some interbedded clay, appears to be about 160 feet thick in well no. 212 (fig. 2). The upper part of the Sparta Sand is about 100 feet thick. Separating the two parts is about 130 feet of interbedded sandy clay. The effectiveness of this middle clay unit as a confining bed is variable and depends largely on the local distribution and thickness of clay. The spatial and vertical limits of the Sparta Sand also locally define the Sparta aquifer.

Below the Sparta Sand lie sediments assigned to the Cane River Formation and the Carrizo Sand. These units consist predominantly of sand interbedded with thin layers of clay and silt. Where they can be differentiated, the boundaries of the Cane River aquifer and the Carrizo Sand aquifer are locally defined as the limits of the respective formations.

Just north of Brinkley, at the approximate boundary between Tps. 3 and 4 N., the percentage of sand in the Cane River Formation increases. At this point the combined thickness of the Sparta Sand, Cane River Formation, and Carrizo Sand forms the Memphis Sand and is locally designated the Memphis aquifer (Broom and Lyford, 1981).

Wilcox Group

Sediments of the Tertiary Wilcox Group, which underlie the Claiborne Group, average about 450 feet in thickness and have not been subdivided in the study area (table 1). Lithologically, the Wilcox Group consists of complexly interlayered and lenticular sands, silts, and clays. The sands and coarser materials locally constitute the Wilcox aquifer and are probably hydraulically connected to the sands in the lower part of the overlying Claiborne Group. In the study area the water in the Wilcox aquifer is saline. However, in the Memphis area the Wilcox aquifer contains freshwater and is referred to as the "1,400 foot sand" aquifer.

Midway Group

The Midway Group, which underlies the Wilcox Group, is Tertiary in age and has not been subdivided in this report (table 1). Its average thickness is about 500 feet in the study area. The Midway Group consists predominantly of clay and contains silt in the upper part. The clay of the Midway Group is considered an excellent confining bed capable of restricting any upward movement of fluids from deeper formations.

Upper Cretaceous Sediments

Approximately 600 feet of Upper Cretaceous sediments consisting primarily of marl, sand, clay, and chalk, occur between the base of the Midway Group and the top of the Paleozoic sequence (table 1). Where adequate subsurface data are available, the Upper Cretaceous sediments, from top to bottom, can be subdivided into the Arkadelphia Marl, Nacatoch Sand, Saratoga Chalk, Marlbrook Marl, Annona Chalk, Ozan Formation, Brownstone Marl, and Tokio Formation.

All of the water within Cretaceous sediments is saline. The Nacatoch aquifer is locally defined as the predominantly sandy units of the Nacatoch Sand and is considered a potential source of saltwater contamination of overlying units. The top of the Nacatoch Sand ranges in depth from about altitude -1,200 feet in the northwest corner of the area to about altitude -2,650 feet in the southeast corner (Petersen and others, 1985).

HISTORY OF SALTWATER INTRUSION

Saltwater intrusion into the alluvial aquifer was first documented in 1946 when a water sample from well no. 111 was found to have a chloride concentration of 150 mg/L. The area of saltwater intrusion appears to have spread rapidly after this time. A water sample from well no. 177, a well in the alluvial aquifer located just northwest of Brinkley, contained a chloride concentration of 22 mg/L on October 6, 1949. The chloride concentration of water samples from this well increased rapidly over the next 20 years to 800 mg/L (fig. 4). This well is now located at the center of a major concentration of saltwater in the alluvial aquifer.

Saltwater occurrence in the underlying Sparta aquifer was documented much earlier than in the alluvial aquifer. Stephenson and Crider (1916) reported a concentration of 916 milligrams per liter (mg/L) chloride in a water sample from the Sparta aquifer in 1904 (table 2). The well sampled was reported to be used as a public supply for the city of Brinkley.

An approximately 56 mi^2 area of saltwater (equal to or exceeding 50 mg/L chloride concentration) occurs in the alluvial aquifer as illustrated in figure 5. The lines of chloride concentration shown are based on the maximum chloride concentration for each well for the period of record. Intervals used are 50, 100 and 200 mg/L. Two areas of high chloride concentration are shown. One area is located approximately 1 mile north of the Brinkley city limits where chloride concentrations in water from the alluvial aquifer are as high as 960 mg/L. The second area is located approximately 5.5 miles south of the Brinkley city limits where concentrations reach a maximum of 460 mg/L.

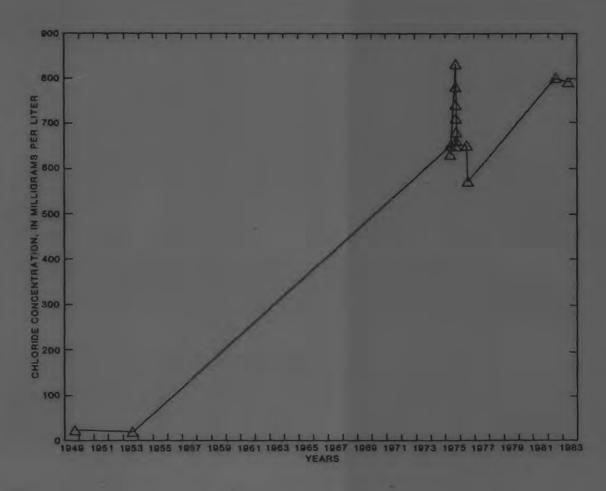


Figure 4.--Chloride concentration versus time for water from well no. 177 in the alluvial aquifer.

Table 2.--Analysis of a water sample from Sparta aquifer collected in 1904 (Stephenson and Crider, 1916)

[Parts per million]

Date of Owner Analyst collection			Town- ship	Section Town- Range ship	No. Town Section Town-ship
iit, near t. w. Joines 0.	ני מ	& Water Co.	railell Lig	raffell Lig	

Total hardness as CaCO3	88
Volatile Total and dissolved organic solids matter	1,938
O O E	84
Chlorine (C1)	916
Bicar- bonate Sulphate radical radical (HCO3) (SO4)	2.3
1 ' ' '	246
Car- bonate radical (CO3)	
Sodium and po- tassium (Na+K)	67
Mag- nesium (Mg)	6.2
Iron Calcium (Fe) (Ca)	25
	a0.9
Silica (SiO ₂)	19

Probable scale-forming ingredients ^b	Probable foaming ingredi- ents ^b	Prob- ability of corro- sionbc	Mineral	Chemical (the chark of the chark acter)	Quality for boiler use	Quality for domestic use	Quality for irriga- tion
100	1,800	NC	High	Na-C1	Very bad	Bad	Poor

a Aluminum (A1), 0.2 part; phosphate radical (PO_4), 1.5 parts. b Computed. c NC = noncorrosive.

As shown on figure 5, the area of saltwater intrusion is not evenly distributed but rather has a meandering character. This meandering may be due to the irregular distribution of clays of the Jackson Group below the the base of the alluvial aquifer.

Chloride data collected after 1974 were considered to best represent present chloride concentrations and previously collected data were not used. In addition, the depth of wells in the alluvial aquifer was not considered when drawing lines of equal chloride concentration.

Observed variation in chloride concentrations with well depth is illustrated in figure 6. Chloride concentrations in three wells of ranging depth increased with depth (and depth of well intake). The three wells are less than 40 feet apart. The amount and distribution of pumping prior to sampling are not known.

An observed variation in chloride concentration with depth of well and time of pumping is shown in figure 7. The two wells shown are about 20 feet apart and had not been pumped for several days prior to sampling. Samples from well no. 178 (85 feet deep) show an increase in chloride concentration with time following the beginning of pumping. This increase would be expected as deeper saltwater begins to reach the well. However, water samples from well no. 177 (130 feet deep) show decreasing chloride concentrations as the well is pumped.

A possible explanation for this anomalous change in chloride is illustrated in figure 8. Pumping of well no. 178, the shallow well, creates an upward component of flow which brings saltier water from below into the well; hence the observed increase in chloride concentration with respect to time. In contrast, pumping of well no. 177, the deep well, creates generally downward components of flow which induce fresher water from above into the well intake. As a result of this flow pattern, the chloride concentration of water in the deep well decreases with time.

SOURCE OF CONTAMINATION

The saltwater contaminating the alluvial aquifer may originate from one or more of the following sources:

- 1. a zone of ground-water stagnation in the aquifer,
- 2. irrigation practices, and
- upward movement of saltwater from deeper formations in response to pumping.

However, before discussing these sources it should first be established that the alluvial aquifer, when first formed, did not contain significant quantities of saltwater. Boswell and others (1968) state that "the Quaternary alluvium of the Mississippi River valley is the product of large-scale erosion and deposition during the Pleistocene and Holocene Epochs. Several periods of glaciation in Canada and the northern United States and subsequent seasonal melting released large volumes of water, resulting in several cycles of erosion and alluviation." Since glaciers were the source of most of this water, water originally contained within the alluvial aquifer was probably fresh.

A zone of stagnation could be present in the alluvial aquifer. Such a zone, as described by Winter (1976), could be local in nature and would be created by regional and/or local ground-water flow patterns in which a particular area has restricted horizontal and/or vertical flow. The static nature of flow would allow water in the stagnation zone to dissolve available minerals from the surrounding aquifer material over a long period of time.

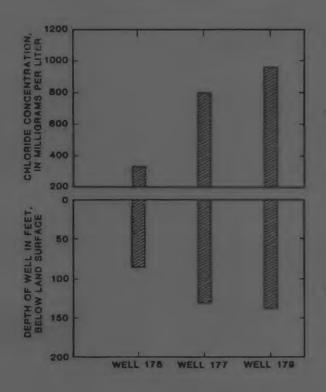


Figure 6.--Chloride concentration versus depth of well for water from three wells in the alluvial aquifer less than 40 feet apart.

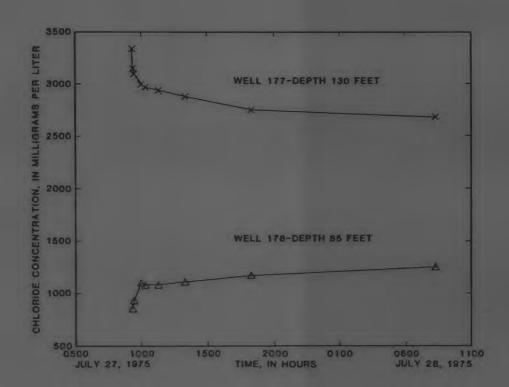


Figure 7.--Chloride concentration for water from two wells in the alluvial aquifer in close proximity but at different depths, July 27-28, 1975.

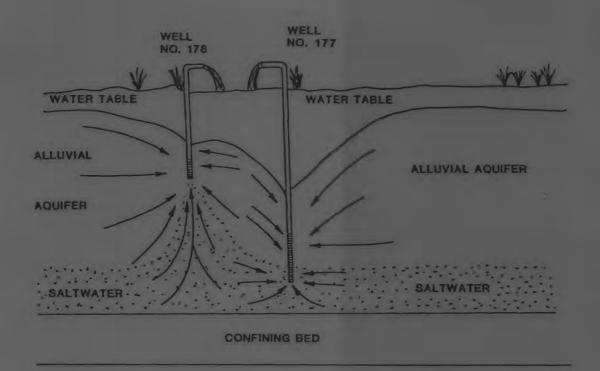


Figure 8.--The effect of withdrawal depth on chloride concentrations of water from two pumping wells 20 feet apart.

This stagnation could significantly increase the amount of dissolved minerals contained in water within the zone. However, geologic evidence does not support the presence of boron, iodide, bromide and other constituents in the aquifer materials in quantities sufficient to raise the concentration of these constituents to their present levels (see analyses in appendix A).

Irrigation practices might increase the dissolved-solids content of ground water. Salts in the water removed from the aquifer for irrigation can be concentrated by evaporation or leaching before reentering the aquifer. To contaminate the aquifer to the extent shown on figure 5 would require a large amount of return flow after evaporation and/or a significant amount of salt to be present in the soil.

Holland and Ludwig (1981) state that as a general rule only 25 percent of ground water removed for rice irrigation returns to the aquifer. Using Holland and Ludwig's (1981) figure of 125.6 Mgal/d of ground-water withdrawal for irrigation, a 25 percent return rate would equal 31.4 Mgal/d. Therefore, approximately 11 billion gallons of irrigation water are returned annually to the aquifer. This would not exceed 2.5 percent of the total water present in the alluvial aquifer in Monroe County (D. J. Ackerman, U.S. Geological Survey, written commun., 1985). In addition, with initial chloride concentrations as low as 0.3 mg/L, significant contamination resulting from the process of irrigation water evaporation and subsequent concentration of dissolved solids seems doubtful. The possibility of leaching of sodium and chloride from the soil as irrigation water percolates through it also appears to be a remote possibility. The majority of soils in the area are of the calcium magnesium bicarbonate type (Maxwell and others, 1978) and have low concentrations of both sodium and chloride.

Deeper formations are the most likely source of saltwater in the study area. Although only limited water-quality data are available from deep strata, an oil and gas test well open to the Nacatoch aquifer at a depth of 2,240 feet below land surface (well no. 217) was sampled in 1950. This well was sealed off after sampling because of complaints of surface contamination. At the time of sampling the well was artesian, flowing at a rate of 2-3 gallons per minute (gal/min); gas bubbles were evident in the discharge and the water was yellow-black.

Evidence that water from the Nacatoch aquifer or a formation with a similar chemical composition is contaminating shallower formations is shown in the Piper quadralinear diagram of figure 9. Two analyses of water from the Nacatoch aquifer near El Dorado, Arkansas (fig. 1) are included for comparative purposes. The chemical composition of water from each well with respect to the combination of ions shown on figure 9 is plotted on the Piper diagram. The diagram is used to determine whether a particular well-water chemistry may be the result of a simple mixture of two separate well waters. A mixture of two waters should plot on a straight line between the plotted points of the individual well waters barring any effects of ion complexes and activity coefficients. Judging by the dashed line drawn in figure 9, water from the Nacatoch aquifer has mixed with water from the alluvial aquifer.

Another method of determining the source of contamination of the alluvial aquifer is to plot concentrations of selected constituents against related chloride concentrations found in both the alluvial aquifer and deeper formations. If the relation between the uncontaminated alluvial aquifer, contaminated alluvial aquifer, and Nacatoch aquifer plot on a straight line, then support is given to the possibility of contamination of the alluvium by the Nacatoch aquifer or another aquifer with a similar chemical composition. Those constituents which occur in water samples from the Nacatoch aquifer in significant concentrations but occur in water samples from the alluvial and Sparta aquifers in much lower concentrations include bromide, iodide and boron.

Figure 10 shows a log-log relation of bromide to chloride concentrations. This relation and others to be discussed are based on analyses of water samples from the Nacatoch aquifer near the El Dorado, Arkansas area because no analyses for bromide, iodide or boron were available for well no. 217, the only well tapping the Nacatoch aquifer in the study area. As figure 10 shows, the relation of bromide to chloride concentrations in water samples from the alluvial, Sparta and Nacatoch aquifers plot on a straight line. Figure 11 exhibits this same correlation for iodide to chloride concentrations. Figure 12, a plot of boron to chloride concentrations, shows a good correlation between the alluvial and Nacatoch aquifer. However, the correlation between the Sparta and Nacatoch aquifers is not as good. All of these relations point to a dilution of water from the Nacatoch aquifer as it migrates into the shallower Sparta and alluvial aquifers.

POSSIBLE AVENUES OF CONTAMINATION FROM DEEPER FORMATIONS

Saltwater intrusion into the alluvial aquifer can probably be attributed to upward migration from deeper aquifers. Sources of saline ground water occur beneath the alluvial aquifer. Cushing (1966) indicates that all water-bearing formations beneath the Sparta Sand in the southern part of the study area and below the Carrizo Sand in the northern part contain saltwater. As previously discussed, the Nacatoch aquifer was found to be flowing at the surface in 1950, thus providing the driving force for any upward movement from this aquifer. The specific mechanism through which the upward intrusion of this saline ground water occurs is probably the result of one or more of the following:

- 1. Upward leakage from the contaminated Sparta aquifer into the alluvial aquifer where the Jackson Group (a confining unit) is thin or absent,
- 2. Upward leakage into the alluvial and Sparta aquifers directly or indirectly along a fault, and
- 3. Movement through abandoned oil and gas test holes in the study area.

Leakage Through the Jackson Group

The most likely avenue for the intrusion of saltwater into the alluvial aquifer is movement of saltwater from the Sparta aquifer through the Jackson Group where that confining unit has been thinned by erosion. The apparently meandering character of the saltwater band in the alluvial aquifer also suggests such channeling. However, site specific information showing the effectiveness of the Jackson Group as a confining unit are not available.

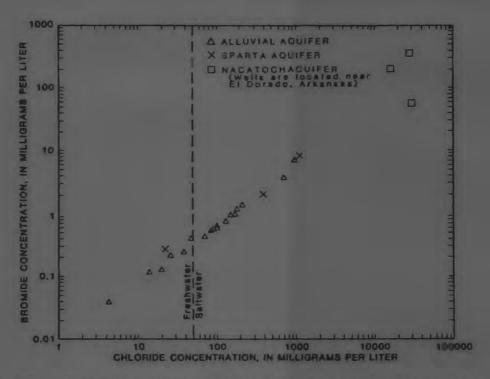


Figure 10.--Bromide versus chloride concentrations of water from wells in the vicinity of Brinkley, Arkansas.

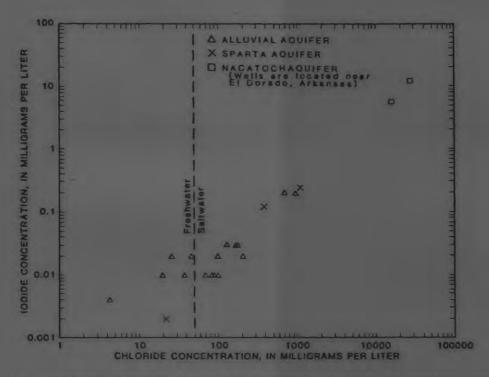


Figure 11.--lodide versus chloride concentrations of water from wells in the vicinity of Brinkley, Arkansas.

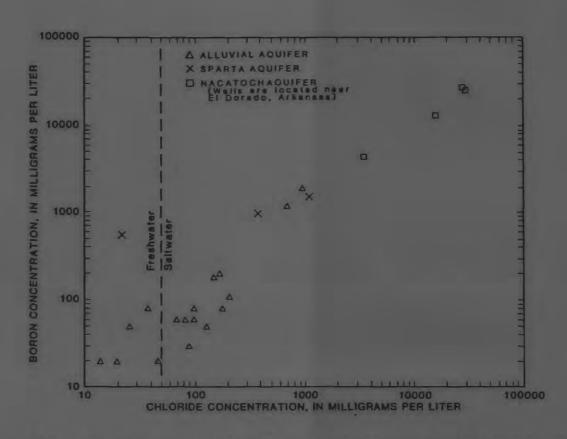


Figure 12.—Boron versus chloride concentrations of water from wells in the vicinity of Brinkley, Arkansas.

Faulting

The presence of a fault would help explain the upward intrusion of salt-water from the Nacatoch aquifer through several hundred feet of overlying material, into the alluvial aquifer. A fault just north of the study area is known, however, data were not sufficient to show that the fault extends into the study area. Assuming that any faulting took place, it should have affected both aquifers at the same time. The occurrence of saltwater in the Sparta aquifer is documented as early as 1904 while saltwater intrusion into the alluvial aquifer appears to have started in the late 1940's. This variation with time of intrusion make it unlikely that faulting is the cause of saltwater intrusion into the alluvial aquifer.

Gas Test Wells

A review of known abandoned oil and gas test well sites in this area revealed one site as a potential source of contamination. However, water-quality analyses of samples from two wells constructed in the alluvial aquifer (well nos. 170 and 171) adjacent to this test well location (well I on figure 2) yielded chloride concentrations of 90 and 130 mg/L, respectively, considerably less than the 960 mg/L which was determined from samples obtained from a nearby well (well no. 179). All known oil and gas test well locations are shown on figure 2. Available data for these wells are shown in table 3 (from Branner, 1937 and Dobie and Hughes, 1956). All of these wells were dry and are now abandoned. These wells generally were plugged and the upper casing removed. Therefore today there is little or no evidence of these wells on the surface.

There appears to be little or no correlation between the location of abandoned oil and gas test wells and the occurrence of saltwater contamination in the alluvial aquifer. However, since it appears that most of these wells would be flowing if cased to the land surface, leakage from a well casing cannot be ruled out as a possible future avenue of contamination. The most likely reason for leakage would be corrosion of the steel well casing by saltwater.

WATER USE AND DECLINING WATER LEVELS

The alluvial aquifer is a major source of irrigation water supply in the study area. In 1980, ground-water use in Monroe County, in which most of the study was done, was 165.21 million gallons per day (Mgal/d) from the alluvial aquifer (Holland and Ludwig, 1981); a 100 percent increase over 1975 use (Halberg, 1977). Withdrawals from the Sparta aquifer indicate a similar trend with the 1980 use of 1.67 Mgal/d being 100 percent greater than the corresponding 1975 use.

This increased use is reflected in a lowering of water levels in both aquifers. Since predevelopment the potentiometric surface of the alluvial aquifer has declined a maximum of 15 feet at Brinkley (D. J. Ackerman, U.S. Geological Survey, written commun., 1985 and Edds and Fitzpatrick, 1984a). The Sparta aquifer potentiometric surface has declined 28 feet since predevelopment (Reed, 1972 and Edds and Fitzpatrick, 1984b). The spring, 1984 potentiometric surface for the alluvial aquifer in the study area is shown on figure 13.

Table 3.-- Description of oil and gas test wells

(Dobie and Hughes, 1956, Branner, 1937)

Elev.	(feet)	200	ì	182	1	1	Ì	170	176	1	175			188.2	1		214	509		210	215	224		212		1	210	77	205
Total depth E	(feet) (f	2527	2930	3156	3290	335	2701	3164	3010	2240	3008		3070	2498	200		2671	2725		2754	3043	2745		2325		629	2365		2505
To	e (f		2	-3		- 2	2	-3	<u>რ</u> —	- 2	<u>~</u>		<u></u>	-			7	- 2		7	<u>~</u>	2		- 5					- 5
į	Rg	2W	2W	2W	2W	3W	2W	3W	3W	2W	3W		2W	2W	1 W		1W	ΙM		1 W	1E	ΙM		ΙW		X	117	K +	ΙM
	Twp	4N	2N	2N	2N	4N	4N	3N	2N	4N	IN		IN	3N	V 4		N4	4N		4N	N9	4N		4N	3	4 N	N/	ŕ	4N
	Sec	15	9	11	23	12	34	22	26	27	13		13	23	7		8	17		20	14	28		28	ć	67	20	ĵ	21
Location	Description	C NE NW	NE NE NE	SW NW SW	SW SW SE	SW SW SE	620' W 600' S NEC SW NE	S	680' S 330' E NWc SW	330' N 330' W SEc SW	SWc SW SE		1	Z	350' N 500' W SEc		100' S 1980' W NEC	C SE SE SE		660' S 330' W NEC	2100' N 970' E SEC	MM MM		NW NW		Z65' N I65' W SEC NE NE	an as can s 105% H 1575	TO SHE SE	C NE NE NE
	Lease	McClain	1	!	1	1	J. P. Smith-Sims	Dewell Gann	Bessie Moore	Stinson, M. R.	Jefferies		Jeffery	Clark	R. R. Tombaugh		R. R. Tombaugh	Engler Bros.	(Caples)	L. E. Porter	Swearingen	Whitted, F. T.		Whitted, F. T.	- - - - - -	Wellford	1 T Wollford	• T	M. J. Peters
	Owner	Coker, James H.	Seaboard Oil Co.	Seaboard Oil Co.	Seaboard Oil Co.	Seaboard Oil Co.	Smith, J. P., Oil Co.	Sohio Prod. C.	Stratton Drilling Co.	Burch, John G.,	Clarendon Bowler Well	& Const. Co.	Prairie O & G Co.	Traffic 0 Co.	Petroleum Products	Corp.	Barnwell, R. S.	Petroleum Products Co.		Garson-Sands	Ark Natural Gas Co.	Jennings, J. W.	(Whitted F. T., Tr)	Jennings, J. W.		Fields, Jenkins &	Jones Usranous D T Ir	Tr. (U.S. Oil Corp.)	Hargraves, D. T., Jr.,
	Permit no.	6,872	Core hole	Core hole	Core hole	Core hole	986,6	8,225	9,675	6,614	1		1	1,010	9,250		9,311	9,054		9,846	6,138	1		1		0,431	7 7,05	00167	7,711
We11	no.	 	В	ပ	Д	ы	뇬	ტ	Н	н	ŋ		×	ı	Σ		Z	0		പ	0	8		S	E	:	I	-	Λ

As water levels decline in the alluvial aquifer the opportunity for upward intrusion of saltwater from underlying sources increases. During the spring of 1983 the potentiometric surface of the Sparta aquifer was approximately equal to or greater than that of the alluvial aquifer in the northern one-half of the study area. In the remainder of the study area the potentiometric surface of the Sparta aquifer was lower than that of the alluvial aquifer (Edds and Fitzpatrick, 1984a and 1984b). The area where the potentiometric surface of the Sparta aquifer was equal to or greater than that of the alluvial aquifer is shown on figure 13.

CONSEQUENCES OF SALTWATER USE

Saltwater may contain a number of minerals which make it unsuitable for for use. Although chloride is used as a criterion for saltwater contamination it is not the only criterion used to judge the quality of ground water for domestic, industrial, or agricultural use. High sodium concentrations may produce adverse effects. Boron, which is often associated with high sodium chloride concentrations, may limit the use of ground waters.

Chloride is not considered a health problem in domestic water supply. However, because of imparting an objectionable taste to the water and possible corrosion of hot water pipes, a level of 250 mg/L chloride has been set by the U.S. Environmental Protection Agency (EPA) as a reasonable goal in National Secondary Drinking Water Regulations, 1979. The EPA (National Academy of Sciences, 1974) states that "in terms of permissible chloride concentration in irrigation water, values up to 20 milliequivalents per liter (708 mg/L) can be used, depending upon environmental conditions, crops, and irrigation management practices." The highest chloride concentration observed in water samples from the alluvial aquifer was 960 mg/L from well no. 179. The highest chloride concentration found in water samples from the Sparta aquifer was 1,100 mg/L from well no. 213.

Sodium is strongly associated with chloride in the saltwater in the Brinkley area. Sodium has been linked to high blood pressure in humans. The EPA (Natural Academy of Sciences, 1974) requires suppliers of water for community public water systems to analyze for sodium although no maximum contaminant level has been set. The National Academy of Sciences (1977) states that "a large proportion of the population, about 3%, is on sodium restricted diets...In many diets allowance is made for water to contain 100 mg/L of sodium." The highest sodium concentration observed in water samples from the alluvial aquifer was 550 mg/L from well no. 179. The highest sodium concentration observed in samples from the Sparta aquifer was 700 mg/L from well no. 213.

Whereas the adverse effect of sodium in drinking water may not be resolved, the adverse effect in irrigation water is clearly documented. Although some crops may be directly affected by high sodium concentrations in irrigation water the most detrimental affect of sodium is its ability to exchange with calcium and magnesium on soil particles, thereby altering the character of the soil. The sodium hazard to soils may be evaluated using the sodium-adsorption-ratio (SAR). This ratio is defined by the equation:

$$SAR = Na^{+}/\sqrt{(Ca^{++} + Mg^{++})/2}$$

where Na^+ , Ca^{++} , and Mg^{++} represent the concentrations in milliequivalents per liter of the respective ions.

Another method of determining the suitability of ground water for irrigation is to measure the dissolved salts of the irrigation water. This may be done by measuring the electrical conductivity of the water and expressing the result in microsiemens per centimeter at 25° Celsius (specific conductance (μ S/cm) in Attachment A). The U.S. Department of Agriculture (Richards, 1954) has devised a sodium hazard diagram for the classification of irrigation waters incorporating SAR and conductivity. A modification of this diagram is shown in figure 14 and includes all wells for which sufficient data were available to make calculations. Although not many wells have a high to very high classification at this time, the number fitting these classifications would be expected to increase as saltwater intrusion continues.

Boron is often associated with source waters that contribute to saltwater problems. Boron is essential to the normal growth of all plants, but the quantity required is very small (Richards, 1954). The U.S. Environmental Protection Agency (1976) has set a criterion of 750 micrograms per liter (UG/L as B in Attachment A). The maximum boron concentration observed in water from the alluvial aquifer was 1,900 micrograms per liter (μ g/L) from well no. 179. The highest boron concentration observed in water from the Sparta aquifer was 1,500 μ g/L from well no. 213.

SUMMARY AND CONCLUSIONS

Saltwater problems are not new in the Brinkley area. The earliest record of saltwater problems in the alluvial aquifer is 1946. Early (1904) records indicate that a public supply well drilled in the Sparta aquifer contained saltwater (chloride concentration greater than or equal to 50 mg/L). After the late 1940's, saltwater problems appear to have spread rapidly in the alluvial aquifer. Water from an irrigation well in the alluvial aquifer just north of Brinkley had a chloride concentration of 22 mg/L in 1949. In 1982 water from this well had a chloride concentration of 800 mg/L and was in the center of the highest saltwater area found in the study. An area of approximately $56 \, \text{mi}^2$ is currently affected by saltwater intrusion.

The cause of saltwater intrusion into the alluvial aquifer appears to be upward movement of saltwater from deeper aquifers. Comparisons of chemical analyses of water samples from the alluvial, Sparta, and Nacatoch aquifers indicate that the deeper Nacatoch aquifer is the source of saltwater intrusion. Three possible avenues of intrusion into the alluvial aquifer from the Nacatoch aquifer were explored:

- Upward leakage from the contaminated Sparta aquifer into the alluvial aquifer where the Jackson Group (a confining unit) is thinned or absent,
- 2. Upward leakage into the alluvial and Sparta aquifers directly or indirectly along a fault, and
- 3. Movement of water from the Nacatoch aquifer directly upward into the Sparta or alluvial aquifers through abandoned oil and gas test holes.

The most likely avenue for intrusion of saltwater into the alluvial aquifer is movement of water from the Sparta aquifer through the Jackson Group where that confining unit has been thinned by erosion. Data indicate that the chemical composition of water containing the highest known concentration of saltwater in the alluvial aquifer is similar to the composition of water obtained from the Sparta aquifer. This similarity supports the possibility of alluvial aquifer contamination by the Sparta aquifer.

Leakage of saltwater from the Nacatoch aquifer into the Sparta aquifer along a fault is a possibility. However, evidence does not support similar intrusion into the alluvial aquifer along a fault because of the variation in time of contamination of the two aquifers.

The possibility of saltwater intrusion from the Nacatoch aquifer into the alluvial or Sparta aquifers via abandoned oil and gas test wells cannot be ruled out as a future avenue of contamination. The potentiometric surface of the Nacatoch aquifer is high enough in the study area to force water into either the alluvial or Sparta aquifer through a breached well casing. However, an early (1904) record of saltwater occurrence in the Sparta aquifer probably rules out oil and gas test wells as a source of this contamination as no recorded drilling of oil and gas test wells occurred prior to this time.

If intrusion into the alluvial aquifer is indeed due to upward leakage from the Sparta aquifer, then contamination of the alluvial aquifer can be expected to become no more severe than conditions indicated by the poorest water quality in the Sparta aquifer. Where the water level in the Sparta aquifer is higher than the water level in the alluvial aquifer a fall in water level of the Sparta aquifer (or an increase in water level of the alluvial aquifer) in the area of saltwater contamination would reduce the intrusion from the Sparta aquifer. Likewise, opposite circumstances would increase the intrusion from the Sparta aquifer. Furthermore, intrusion into the Sparta aquifer from a deeper aquifer may not be taking place at this time. Contamination could have taken place along an open fault in the past and this fault could have filled in, removing the source of intrusion. In this case, water quality from both the Sparta and the alluvial aquifers would be expected to improve with continued pumping.

Additional monitoring of wells in the area would be beneficial to determine if saltwater concentrations are increasing and to monitor in which direction, if any, the saltwater is spreading. A ground-water model could help predict future areas of saltwater intrusion. Drilling of additional test wells into the Sparta aquifer could help determine if this aquifer is still being contaminated from below.

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ATTACHMENT A. -- WATER-OUALITY DATA FOR WELLS IN THE VICINITY OF BRINKLEY, ARKANSAS

WELL NO. 1 LOCAL NO. 01N01W04DAA1 SITE ID 344331091062001 ALLUVIAL AOUIFER

ELEV. OF LAND SURFACE SPE-CHLO-CIFIC RIDE, DATUM CON-DIS-SOLVED (FT. TEMPER-DUCT-MEDIUM ABOVE ATURE ANCE (MG/L DATE TIME NGVD) (DEG C) (µS/cm) AS CL) (72000) (00010) (00095)(00940) AUG , 1983 15... 1705 6 187.00 17.0 1020 57

WELL NO. 2 LOCAL NO. 01N01W07ACC1 SITE ID 344249091085201 OWNER - BATEMAN BROTHERS ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE, DATUM CON-DIS-(FT. TEMPER-DUCT-SOLVED MEDIUM ABOVE ATURE ANCE (MG/L DATE TIME NGVD) (DEG C) (µS/cm) AS CL) (72000) (00010) (00095)(00940)

JUL , 1983 27... 1200 6 183.00 18.0 460 11

WELL NO. 3 LOCAL NO. 01N01W08BCD1 SITE ID 344247091071001 OWNER - WILEY MEACHAM ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-RIDE, DIS-SURFACE CIFIC DATUM CON-SOLVED (FT. TEMPER-DUCT-MEDIUM ABOVE ATURE ANCE (MG/L DATE TIME NGVD) (DEG C) $(\mu S/cm)$ AS CL) (00940) (72000) (00010)(00095)JUL , 1983 27... 1200 182.00 18.0 790 34

WELL NO. 4 LOCAL NO. 01N01W21CDC1 SITE ID 344034091071001 OWNER - ALOYS RINEHART ALLUVIAL AOUIFER

DATE	:	TIME		MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEP OF WEL TOT (FE (720	L, AL ET)	FL RA (GP (000	M)	TEMPEI ATURI (DEG (CON R- DUC E ANC C) (µS/	FIC N- CT- CE (cm)	PH (STAI ARI UNITS (0040) 5)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	
JUL , 13 JUL ,			-	6	181.00	134		1290		17	•0	520				
19	•	1515		6				1330		17	.0	556	-	.2	2	
DATE	:	TIME		ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)		/L 03)	CAR DIOX DI SOL (MG AS C	IDE S- VED /L (02)	HARD- NESS (MG/I AS CACOS	NONG BONA (MG	SS, CAR- ATE G/L CO3)	CALC: DIS- SOLV (MG, AS (ED L CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
յաւ ,	1974	4														
19	•	1515		262	320		0	3	2	27	70	8	75		20	
DATE	:	TIME		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SOR TI RAT	ON	POT SI DI SOL (MG AS	UM, S- VED /L K)	CHLO- RIDE DIS- SOLVI (MG/I AS CI	SULI DIS D SOI L (MG	LVED G/L GO4)	SULF TOTA (MG, AS S	AL 'L S)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	
JUL ,	1974	1515		15	11		•4	2	•6	10	:	26		.1	<.10	
	DATE	2	TIME	PHO TO (M AS	RUS, RUS, TAL S G/L (FP) A	LUO- IDE, DIS- OLVED MG/L S F) O950)	DI SO (M A SI	LVED G/L	RES AT DE D SO (M	IDUE : 180 G. C : IS- LVED G/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	50 (U AS	RON, DIS- DLVED JG/L S FE) .046)	NE SO (U AS	NGA- SE, IS- LVED G/L MN) 056)	
	JUL ,	197	1515		•590	•20		36		332	350		4600		610	

WELL NO. 5. LOCAL NO. 01N02W01CCC1 SITE ID 344316091103001 OWNER - OUINCY MURPHY ALLUVIAL AQUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
DATE	TIME	MEDIUM	(FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	DUCT- ANCE (µS/cm) (00095)	SOLVED (MG/L AS CL) (00940)
	0.7		(72000)	(1/1/10)	(00093)	(00340)
AUG , 19						
16	1520	6	181.00	17.0	610	21

WELL NO. 6 LOCAL NO. 01N02W01DAB1 SITE ID 344337091093901 ALLUVIAL AOUIFER

DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
27	1200	6 185.00	18.0	700	29
WELL NO.	7	LOCAL NO. 01N02W04ACB ALLUVIAL AQUIFER	l SITE ID	344359091	131001
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 1983 26	3 1200	6 186.00	18.5	425	12
WELL NO.	8	LOCAL NO. 01N02W05ACD ALLUVIAL AQUIFER	l SITE ID	344352091	140701
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 1983	3 1410	6 186.00	17.0	590	24
WELL NO.	9	LOCAL NO. 01N02W06BBB ALLUVIAL AOUIFER	l SITE ID	344413091	154501
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 1983	3 1320	6 182.00	17.5	570	29

WELL NO. 10 LOCAL NO. 01N02W10BCA1 SITE ID 344258091122601 OWNER - ROY SCHENK ALLUVIAL AOUIFER

DATE JUN , 197 25 WELL NO.	1330	OF SUI D. MEDIUM AI NO (7:		TEMPER- ATURE (DEG C) (00010) 17.0 SITE ID	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND-ARD UNITS) (00400)
DATE	TIME	EI OF SUI D. MEDIUM AI NO	LEV. LAND RFACE ATUM (FT. BOVE GVD) 2000)	TEMPER- ATURE (DEG C) (00010)	SPE- GIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 198 26	3 1200	6 18	86.00	18.0	440	6.8
WELL NO.	12	LOCAL NO. 01N02W ALLUVIAL AOUIFER		SITE ID	344245091	103001
DATE	TIME	OF SUI DA MEDIUM AL NO	LEV. LAND RFACE ATUM (FT. BOVE GVD) 2000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JሆL , 198 26	3 1200	6 18	82.00	18.0	450	7.7
WELL NO.	13	LOCAL NO. 01N02W ALLUVIAL AQUIFER		SITE ID	344223091	103101
DATE	TIME	OF SUI D. MEDIUM AI NO	LEV. LAND RFACE ATUM (FT. BOVE GVD) 2000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (OOO95)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 198 26	3 1200	6 18	82.00	18.5	465	8.7

WELL NO. 14 LOCAL NO. 01N02W14DAA1 SITE ID 344158091103701 OWNER - GEISLER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM A	CI CC MPER- DI TURE AI EG C) (µS	ICT- (ST NCE A S/cm) UNI	'H (1 'AND- IX IRD CO ITS) U'	OLOR LI PLAT- I NUM- (OBALT NUTS) (INITY BO FIELD FET (MG/L (1 AS A CACO3) HO	T-FLD BC MG/L FE3 AS (1 CO3) AS	CAR- DIC DNATE F F-FLD SC MG/L (M CO3) AS	ARBON DXIDE DIS- DLVED G/L CO2) 1405)
JUN , 196 27	1	6	17.0	390	7.4	15	197	240	0	15
DATE	TIME	HARD- NESS (MG/L AS CACO3)		CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	
JUN , 27		200	0	59	12	8.7	9	.3	1.8	
DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	(MG/L AS SO4)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA DIS- SOLVEI (MG/L AS SIO2)	AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	
JUN , 27		6.0	8.8	.11	.30	15	256	230	0	
WELL NO. 15 LOCAL NO. 01N02W20ABB1 SITE ID 344132091140601 OWNER - LONNIE JOHNSON ALLUVIAL AQUIFER										
DATE TIME	MEDI	ELEV. OF LAND SURFACE DATUM (FT. UM ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET)	TEMPER- ATURE (DEG C) (O0010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
Jun , 1975 05 1200	6	180.00	100	17.5	420	7.8	3 220	0	5.5	12

WELL NO. 16 LOCAL NO. 01N02W22DAB1 SITE ID 344103091115501 OWNER - PARK GROVE CHURCH ALLUVIAL ACHIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
SEP , 19		6	180.00	20.50	64	6.7	21	26	0	8.2
DATE	TIME	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	VITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
SEP , 19		15	0	4.5	.80	3.0	7.0	•09	130	440

.

WELL NO. 17 LOCAL NO. 01N03W12CBB1 SITE ID 344254091165401 OWNER - BATEMAN BROTHERS ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	FLEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	9 83 1200	6	186.00	125	18.0	315	2.6

WELL NO. 18 LOCAL NO. 01N03W13CCA1 SITE ID 344148091164801 OWNER - EARL UMHOLTZ ALLUVIAL AQUIFER

TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
83	_					.80
		TIME 83	SURFACE DATUM (FT- MEDIUM ABOVE TIME NGVD) (72000)	SURFACE DEPTH DATUM OF (FT. WELL, MEDIUM ABOVE TOTAL TIME NGVD) (FEET) (72000) (72008)	SURFACE DEPTH DATUM OF (FT. WELL, TEMPER- MEDIUM ABOVE TOTAL ATURE TIME NGVD) (FEET) (DEG C) (72000) (72008) (00010)	SURFACE DEPTH CIFIC CON- DATUM OF CON- (FT. WELL, TEMPER- DUCT- MEDIUM ABOVE TOTAL ATURE ANCE TIME NGVD) (FEET) (DEG C) (µS/cm) (72000) (72008) (00010) (00095)

WELL NO. 19 LOCAL NO. 01N03W14BAB1 SITE ID 344227091173801 ALLUVIAL AOUIFER

ELEV.

		DATE	TIME	ме	DIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			
		JUL , 19 29	983 1200		6	176.00	18.0	310	3.0			
		WELL N	0. 20	LOCAL N			SITE ID	344125091	173601 OW	NER - CRO	ENN NELSON	
DATE TIME			FLOW RATE (GPM) 00058)	TEMPER- ATURE (DEG C) (00010)	SPE CIF CON DUC ANC (µS/ (OOO	IC - PH T- (STA E AR cm) UNIT	ND- INU D COB S) UNI	AT- FIE M- (MG ALT AS TS) CAC	TY BON LD FET- /L (MG AS 03) HCO	ATE CA FLD BON /L FET- (MG	(MG/L (MG/L (MG/L	e D
JUL , 1974 24 1115		6 1	190	17.0		386	7.4	5	176	210	0 14	
DATE	TIME	HARD NESS (MG/ AS CACO (0090	- NE: NON: L BON: (M: 3) CA:	CAR- D ATE S G/L (CO3) A	LCIUM IS- OLVED MG/L S CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
JUL , 1974	4 1115	1	70	0	51	11	11	12	4	8.7	. 10	
DATE	TIME	SULFA DIS- SOLV (MG/ AS SO (0094	GI TE NO2- D ED SOI L (MG	IS- PH LVED T G/L (1 N) A	HOS- ORUS, OTAL MG/L S P) O665)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
JUL , 1974 24	1115	16		<.10	.320	•20	44	247	260	4100	2000	

WELL NO. 21 LOCAL NO. 01N03W24BBD1 SITE ID 344121091164201 OWNER - W. M. LEE ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET)	AT (DE	(PER- IT TURE A TG C) (1	PE- CIFIC CON- CHICT- NCE (S/cm)	PH (STAND- ARD NITS) (00400)	(P IN CO UN	PLAT- NIM- BALT HITS)	ALKA- INITY FIELD (MG/L AS CACO3)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
JUL , 196	l 	6	186.00	123		17.0	292	7.2		5	138	170
DATE	TIME	CAR BONA FET-F (MG/ AS CO (0044	TE DI LD SOL L (MG 3) AS C	IDE HA S→ NE VED (N /L A 02) CA	ARD- ESS 4G/L AS ACO3) 9900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	SOL' (MG, AS	IUM S - D VED SO /L (M CA) AS	GNE- IUM, IS- LVED G/L MG) 925)	SODIUM DIS- SOLVEE (MG/I AS NA	PERO SOI	NUI
JUL ,			0 1	7	140	1	36	1	2	7.0	1	10
DATE	TIME	SODI AD SORP TIO RATI	- SI - DI N SOL O (MG AS	UM, RI S- DI VED SC /L (N K) AS	HLO- IDE, IS- DLVED (G/L G CL)	SULFATE DIS- SOLVEE (MG/L AS SO4) (00945)	DI: SOL' (MG AS	N, SUM ATE CON S- TUE VED D /L SO N) (M	IDS, OF STI- NTS, IS- LVED G/L) 301)	IRON, DIS- SOLVE (UG/I AS FE	NES DI CD SOI (UC	IS- LVED G/L MN)
JUL ,			.3 1	•6	7.5	8.4		.18	210	490	0	0

WELL NO. 22 LOCAL NO. 02N01W04CBA1 SITE ID 344857091065301 OWNER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
AUG , 19											
03 15	1130 1415	6 6	189.00 189.00	17.5 17.0	900 890	7.2	420 	460 		46 	410
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
AUG , 19	83										
03	1130 1415	0	110	33	36	16	.8 	2.2	26 31	66	<.10
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (HG/L AS R) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 19	83 1130	•20	31	510	540	4400	520	.020	12	50	•22

WELL NO. 23 LOCAL NO. 02N01W05AAB1 SITE ID 344923091071301 ALLUVIAL AQUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
DATE	TIME	MEDIUM	(FT. ABOVE NGVD)	TEMPER- ATURE (DEG C)	DHCT- ANCE (us/cm)	SOLVED (MG/L AS CL)
51111			(72000)	(00010)	(00095)	(00940)
AUG , 19	83					
15	1510	6	188.00	17.0	900	20

WELL NO. 24 LOCAL NO. 02N01W07CCC2 SITE ID 344739091091802 ALLUVIAL AOUIFER

DATE TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD NITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (OOO80)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
JUL , 1974 24 0850	6			1810	16.5	883	7.1	3	397	480
JUL , 1983 26 1200	6	191.00	140		18.0	770				
DATE TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL , 1974 24 0850	0	61	360	0	97	29	52	24	1	2.0
DATE TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUL , 1974 24 0850 JUL , 1983	42	27	•55	.280	•20	31	465	520	2900	310
26 1200	42									

WELL NO. 25 LOCAL NO. 02N01W08AAC1 SITE ID 344817091072001 ALLUVIAL AQUIFER

			ELEV. OF LAND SURFACE DATUM (FT.	TEMPER-	SPE- CIFIC CON- DUCT-	CHLO- RIDE, DIS- SOLVED
DATE	TIME	MEDIUM	ABOVE NGVD) (72000)	ATURE (DEG C) (00010)	ANCE (µS/cm) (00095)	(MG/L- AS CL) (00940)
JIIL , 19	983 1200	6	185.00	18.0	815	44

WELL NO. 26 LOCAL NO. 02N01W09DAC1 SITE ID 344755091061901 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	1200	6	185.00	18.0	93 0	37

WELL NO. 27 LOCAL NO. 02N01W18CCB1 SITE ID 344655091091901 OWNER - JERESA LAND CO. ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	190.00	18.0	865	71

WELL NO. 28 LOCAL NO. 02N01W19CDA1 SITE ID 344600091084701 OWNER - KENNETH FRIAR ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER-ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	98 3 1200	6	196.00	18.0	840	45

WELL NO. 29 LOCAL NO. 02N01W20DAB1 SITE ID 344613091072601 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (uS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	187.00	18.0	665	9.6

WELL NO. 30 LOCAL NO. 02N01W31AAA1 SITE ID 344456091081601 ALLUVIAL AOUIFER

DATE	TIME	MEDIUI	ELEV. OF LAND SURFACE DATUM (FT. M AROVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	83 1620	6	197.00	17.5	950	48
WELL NO	. 31	LOCAL NO. (12NO1W32DCA1	SITE ID	344415091	073501

WELL NO. 31 LOCAL NO. 02N01W32DCA1 SITE ID 344415091073501 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	983 1625	6	193.00	17.5	810	44

WELL NO. 32 LOCAL NO. 02N02W02BBA1 SITE ID 344925091111301 OWNER - ROBERT FITTS ALLUVIAL AQUIFER

DATE	TIME	MED IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	184 1730	6	195.00	125	18.0	782	50

WELL NO. 33 LOCAL NO. 02N02W03CAA1 SITE ID 344853091120001 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	984 0815	6	191.00	17.0	1470	260

WELL NO. 34 LOCAL NO. 02N02W04AAA1 SITE JD 344926091122901 OWNER - ED DOPPLE ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	084 0930	6	189.00	122	17.5	1100	120

WELL NO. 35 LOCAL NO. 02N02W04DDD1 SITE ID 344833091122901 OWNER - VIRGIL ENGLER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP ,	1982	6	186.00	17.5	1620	320

WELL NO. 36 LOCAL NO. 02N02W05CBB1 SITE ID 344901091143401 OWNER - GLEN FULLER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
MAY , 19	75								
20		6	189.00	135			1650		
23		6	189.00	135			1660		
JUN									
03		6	189.00	135			1680		
29	1000	6	189.00	135	135		1650	7.5	374
JUL									
02		6	189.00	135			1660	7.4	
12		6	189.00	135				7.6	
12	1100	6	189.00	135			1680	7.6	381
SEP , 19	82								
09		6	189.00	135			1280		
JUL , 19	83								
28	1200	6	189.00	135		18.5	1020		
AUG									
02	1300	6	189.00	135		18.0	1270	7.3	420

WELL NO. 36 LOCAL NO. 02N02W05CBB1 SITE ID 344901091143401 OWNER - GLEN FULLER ALLUVIAL AQUIFER - CONTINUED

DATE	TIME	BICAR-BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
JUN , 19	75								
29 JUL , 19	1000	460	0	23	410	37	110	33	150
12	1100	460	0	19					150
AUG , 19	1300	470	0	37	380	0	100	32	110
DATE	TIME	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
MAY , 19	75								
23 JUN					230				
29 JUL	1000		3		230		***		***
02	1100				230 240		***		
12 SEP , 19									
09 JUL , 19	83	****	***		220		***		***
28 AUG	1200				160				
02	1300	38	3	3.0	170	9.2	<.10	•30	30
DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (O1130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
WAY 10	76								
MAY , 19 20 23 JUN	 	1070 1080					 		
03		1090							
29 JUL	1000			6300	***				
02 AUG , 198	 83	1080							
02	1300	652	690	4600	320	•030	19	200	1.0

WELL NO. 37 LOCAL NO. 02N02W06AAD1 SITE ID 344920091144201 OWNER - FULLER FARMS ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (OOO95)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOYIDE DIS- SOLVED (MG/L AS CO2) (00405)
SEP , 19	182	6	189.00	110	17.5	750					
AUG , 19	83				2						
02	1330	6	189.00	110	17.5	812	7.3	340	370	0	29
DATE	TIME	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
SEP , 19	82										
10										95	
AUG , 19											
02	1330	310	0	84	25	42	22	1	2.0	70	10
DATE	TIME	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 19	83							•			
02	1330	.86	•30	30	450	450	3400	•010	13	60	•44

WELL NO. 38 LOCAL NO. 02N02W06DCB1 SITE ID 344845091150901 OWNER - FULLER FARMS ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19	182	6	186.00	130	17.5	1030	200

WELL NO. 39 LOCAL NO. 02N02W06DDA1 SITE ID 344843091143701 ALLUVIAL AOUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
			(FT.	TEMPER-	DUCT-	SOLVED
		MEDIUM	ABOVE	ATURE	ANCE	(MG/L
DATE	TIME		NGVD)	(DEG C)	(µS/cm)	AS CL)
			(72000)	(00010)	(00095)	(00940)
JUL , 198	33					
28	1200	6	189.00	18.5	1420	240

WELL NO. 40 LOCAL NO. 02N02W07ACD1 SITE ID 344810091145601 OWNER - FULLER FARMS ALLUVIAL AQUIFER

DATE TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 1982	6	186.00	17.5	1450	260

WELL NO. 41 LOCAL NO. 02N02W11BBA1 SITE ID 344830091111501 OWNER - GARY F. SMITH ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19							
08	1800	6	194.00	134	17.5	1320	180

WELL NO. 42 LOCAL NO. 02NO2W11BBD1 SITE ID 344818091111801 OWNER - SAM MEDFORD ALLUVIAL AOHIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
JUN , 19	983										
22 AUG	1650	6	192.00	17.5	1110						
02	1530	6	192.00	17.5	1270	7.3	440	500	0	40	390
11	1350	6	192.00	17.5	1280						
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SHLFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
JUN , 19	983										
22 AUG	1650								160		
02	1530	0	100	34	110	38	3	2.6	150	20	<.10
11	1350								150		
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 19											
02	1530	•20	28	685	700	4700	380	<.010	18	180	.98

WELL NO. 43 LOCAL NO. 02N02W11CBB1 SITE ID 344802091111901 OWNER - SAM MEDFORD ALLUVIAL AQUIFER

DATE TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
SEP , 1975								
10 SEP , 1982	6	195.00	93.00	93.0	18.0	1090	7.3	364
10 AUG , 1983	6	195.00	93.00		17.0	1240		
02 1615	6	195.00	93.00		22.0	1450	7.3	480
11 1320	6	195.00	93.00		17.5	1420		
DATE TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
SEP , 1975			0.5		•	24	••	22
10 AUG , 1983	440	0	35	340	0	86	30	83
02 1615	530	0	42	520	43	140	42	100
DATE TIME	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
SEP , 1975	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
SEP , 1975 10 SEP , 1982 10	SODIUM	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
SEP , 1975 10 SEP , 1982	SODIUM	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
SEP , 1975 10 SEP , 1982 10 AUG , 1983 02 1615 11 1320 DATE TIME	SODIUM (00932) 	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
SEP , 1975 10 SEP , 1982 10 AUG , 1983 02 1615 11 1320	SODIUM (00932) 29 SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	AD—SORP—TION RATIO (00931) 2 2 SOLIDS, SUM OF CONSTITUENTS, DIS—SOLVED (MG/L)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 100 160 210 140 MANGA- NESE, DIS- SOLVED (UG/L AS MN)	DIS- SOLVED (MG/L AS SO4) (00945) 14 IODIDE, DIS- SOLVED (MG/L AS I)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) < < LITHIUM DIS- SOLVED (UG/L AS LI)	BORON, DIS- SOLVED (MG/L AS F) (00950) 20 BORON, DIS- SOLVED (UG/L AS B)	DIS- SOLVED (MG/L AS SIO2) (00955) 31 BROMIDE DIS- SOLVED (MG/L AS BR)
SEP , 1975 10 — SEP , 1982 10 — AUG , 1983 02 1615 11 1320 DATE TIME	SODIUM (00932)	AD—SORP—TION RATIO (00931) 2 2 SOLIDS, SUM OF CONSTITUENTS, DIS—SOLVED (MG/L)	SIUM, DIS- SOLVED (MG/L AS K) (00935) 2.4 IRON, DIS- SOLVED (UG/L AS FE) (01046)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 100 160 210 140 MANGA- NESE, DIS- SOLVED (UG/L AS MN)	DIS- SOLVED (MG/L AS SO4) (00945) 14 IODIDE, DIS- SOLVED (MG/L AS I)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) < < LITHIUM DIS- SOLVED (UG/L AS LI)	BORON, DIS- SOLVED (MG/L AS F) (00950) 20 BORON, DIS- SOLVED (UG/L AS B)	DIS- SOLVED (MG/L AS SIO2) (00955) 31 BROMIDE DIS- SOLVED (MG/L AS BR)

WELL NO. 44 LOCAL NO. 02N02W11DCC1 SITE ID 344741091105401 OWNER - SAM MEDFORD ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	983 1230	6	191.00	17.5	1440	200

WELL NO. 45 LOCAL NO. 02N02W13ABB1 SITE ID 344738091095291 ALLUVIAL AQUIFER

DATE	тіме	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	9 83 1200	6	190.00	18.0	1010	110

WELL NO. 46 LOCAL NO. 02N02W14ABB1 SITE ID 344738091103401 ALLUVIAL AQUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
DATE	TIME	MEDIUM	(FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	DUCT- ANCE (µS/cm) (00095)	SOLVED (MG/L AS CL) (00940)
AUG , 19	83					
11	1425	6	191.00	17.0	1440	190

WELL NO. 47 LOCAL NO. 02N02W14BBA1 SITE ID 344738091111501 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVE (MG/L AS CL (00940	
JUN , 19	183						
22 AUG	1725	6	187.00	17.0	730	69	
11	1300	6	187.00	17.5	850	87	

WELL NO. 48 LOCAL NO. 02N02W15BBA1 SITE ID 344740091121401 OWNER - MALLARD FARMS ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 1730	6	183.00	130	17.5	1710	340

WELL NO. 49 LOCAL NO. 02N02W15CAC1 SITE ID 344707091121301 OWNER - MALLARD FARMS ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	83 1745	6	183.00	17.5	1500	220

WELL NO. 50 LOCAL NO. 02N02W17ACC1 SITE ID 344717091135901 OWNER - GEORGE HILSON ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19	82						
02		6	187.00	El15	18.0	1940	370
JUL , 19 28	1200	6	187.00		18.5	1780	370

WELL NO. 51 LOCAL NO. 02N02W17BCC1 SITE ID 344717091143201 OWNER - D. C. MORRISON ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
JUL , 19	75										
08	1000	6	187.00	110	110	1820	7.5	361	440	0	22
10		6	187.00	110		1790	7.4				
12	1800	6	187.00	110	110	1780	7.6				

WELL NO. 51 LOCAL NO. 02N02W17BCC1 SITE ID 344717091143201 OWNER - D. C. MORRISON ALLUVIAL AOUIFER - CONTINUED

				ALLUVIAI	AOUL	FER -	- CON	TINUE	.D						
DATE	TIME	HARD- NESS (MG/L AS CACO3) (00900)	HAR NES NONC BONA (MG CAC	S, CAL AR- DI TE SC /L (N O3) AS	CIUM IS- OLVED IG/L IG CA)	S: D: SOI (MC	MG)	SODI DIS SOLV (MG AS (009	ED /L NA)		ON	CHLO- RIDE, DIS- SOLVE (MG/L AS CL	RE AT D	LIDS, SIDUE 180 EG. C DIS- OLVED MG/L) 0300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JUL , 1975 08 10	1000 1800	510 480		150 13 12		4:		180 180			4	320 300 300		822 909	5500 5000
		WELL NO.			o. 02N	102W1				34471	70911		OWNER		C. MORRISON
	DATE	TIME		MEDIUM	ELE OF L SURE DAT (F ABO NGV (720	AND TACE TUM TT. OVE	DEP OF WEL TOT (FE (720	L, AL ET)	TEMP: ATU (DEG (000	RE C)	SPE- CIFI CON- DUCT ANCE (µS/c (0009	C F - 5 (m) A	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)		
	SEP , 03 JUL , 28	1983		6		.00	110 110			8.0 8.5			i00 i10		
		WELL NO.		LOCAL NO			CBB1	SITE	ID:	34471	30911	43601	OWNER	- GE(ORGE HILSDON
	DATE	TIME		MEDIUM	ELE OF L SURE DAT (F ABO NGW (720	AND PACE CUM FT. OVE	DEP OF WEL TOT (FE (720	L, AL ET)	TEMP: ATU (DEG (000	RE C)	SPE- CIFI CON- DUCT ANCE (µS/c	C F	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)		
	SEP ,			6	185	.00	E115		18	8.0	19	40 3	370		
		WELL NO.		LOCAL NO ALLUVIAI			BDBB1	SITE	ID:	34471	50911	50701			
		DATE	TIME	меі	DIUM	SURI	AND FACE CUM FT. OVE /D)	TEMP ATU (DEG (000	RE C)	SPE CIF CON DUC ANC (µS/ (000	'IC - - E cm)	CHLO- RIDE, DIS- SOLVE (MG/L AS CL	ED		
		JUL , 1983 28	1200		6	186	5.00	1	8.5	2	120	460			

.

WELL NO. 55 LOCAL NO. 02N02W20BBB1 SITE ID 344647091143701 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , :	1983 1200	6	188.00	18.0	1160	150

WELL NO. 56 LOCAL NO. 02N02W20BBC1 SITE ID 344638091143701 OWNER - TOWNSEND ESTATE ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	FLOW RATE (GPM) (00058)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cr (00095	PH - (STAN ARD m) UNITS	COB UNI	OR LIN AT- FI M- (M ALT A TS) CA	ITY BON ELD FET- G/L (MG	/L FET-FLD (MG/L 3) AS CO3)
AUG , 19	⁷⁴ —	6	640	98.0	18.0	103	30 7	• 2	3	358	440 0
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	DIS-	M, SODIU - DIS- ED SOLVE L (MG/ G) AS N	D L PERC IA) SOD	SO T ENT RA IUM	AD- SI RP- DI	K) AS CL)
AUG , 19	74	44	390	32	100	34	65		26	1 5	.1 110
DA	TE TIME	DI SO (M AS	G.FATE NO2 S- D.LVED SO IG/L (M.SO4) AS	IS- PHO LVED TO IG/L (M	HOS- R ORUS, OTAL S IG/L (S P) A	IDE, DIS- OLVED MG/L S F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
	1974	-	25	.72	.440	•20	35	588	590	4000	390 -

WELL NO. 57 LOCAL NO. 02N02W21DDC1 SITE ID 344558091124901 OWNER - JAMES CROMLEY ALLUVIAL AOUIFER

		ALLUVŢAI	. AOUIFER						
	DATE TIME	MED IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
	JUL , 1983 26 1200	6	185.00	113	18.0	825	30		
	WELL NO. 58		o. 02N02W2	2DCA1 SI	TE ID 3446	060911146	01		
	DATE TIM	меі	EL OF SUP DA (OIUM AR	OVE A	CI CO MPER- DU TURE AN EG C) (µS	FIC RI ON- DI OCT- SO OCE (M S/cm) AS	LO- DE, S- LVED G/L CL) 940)		
	AUG , 1983 11 160	0	6 18	5.00	17.0	1360 12	0		
	WELL NO. 59). O2NO2W2 . AQUIFER	2DDB1 SI	TE ID 3446	090911144	01		
	DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)			
	JUL , 197 09	3	6	186.00	17.0	1300			
	WELL NO. 60		0. 02N02W2 . AQUIFER	5ABC1 SI	TE ID 3445	6400910953	01 OWNER	- DR. V.	PARDO
DATE TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	ANCE (µS/cm)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
SEP , 1975	6 187.00	120	110	18.5	1200	7.4	435	530	0
JUN , 1983 23 1340	6 187.00	120		18.0	1340				
DATE TIME	CARBON DIOXIDE HARD- DIS- NESS SOLVED (MG/L (MG/L AS AS CO2) CACO3) (00405) (00900)		CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	CHLO- RIDE, OIS- SOLVED (MG/L AS CL) (00940)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
SEP , 1975 11 JUN , 1983	34 480	42	120	43	51	1	50	656	1800
23 1340							90		

WELL NO. 61 LOCAL NO. 02N02W25BBA1 SITE ID 344554091101401 OWNER - DR. V. PARDO ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (uS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , 196	51	6	187.00	120	1270	17.0	876	7.4	5	397
11 JUN , 198		6	187.00	120		20.0	1280	7.5		
23	1315 1330	6 6	187.00 187.00	120 120			1070 1330			
AUG 02	1415	6	187.00	120			1180	7.3		460
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
JUL , 196	51	100	0	21	/20	20	110	24	.7	19
14 SEP , 197	75	480 440	0	31 22	430	29	110	36	47	
AUG , 198	33 1415	520	0	41	490	34	130	41	59	21
DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
JUL , 196	51	1	4.1	45	65	.59				557
SEP , 197	75	· 	4.1	70		- 39			_	<i></i>
JUN , 198	33 1315			88						
23 AUG	1330			110						
02	1415	1	2.3	84	87		2.9	•20	31	720
DATE	E TIME	SOLI SUM CONS TUEN DI SOL (MG	OF TI- IRC TS, DI S- SOI VED (UC /L) AS	IS- REC LVED ERA G/L (UC FE) AS	TAL NESCOV- DIABLE SOLGILL (UG	S- DI VED SOI I/L (MC MN) AS	S- DI VED SOL I/L (UG I) AS	S- DI VED SOL I/L (UG LI) AS	VED SOL (/L (MC B) AS	S- VED (/L BR)
14.			550	 1	1500	260				
AUG ,	, 1983 •• 1415		69 0 1	1400		770	.010	14	60	•55

WELL NO. 62 LOCAL NO. 02N02W25BBA2 SITE ID 344548091101702 OWNER - DR. V. PARDO ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
SEP , 19 11 JUN , 19 23		6 6	187.00 187.00	122 122	110	18.0	1380 1330	7.3 —	446 	540 —	o
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (O1046)
SEP , 19 11 JUN , 19 23		43 —	550 	100	140	48 	57	1	85 110	756 	2100

WELL NO. 63 LOCAL NO. 02N02W26DBD2 SITE ID 344517091104602 OWNER - DR. V. PARDO ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEVOR OF LAND SURFACE DATUM (FT ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	983 1635	6	186.00	17.0	880	56

WELL NO. 64 LOCAL NO. 02N02W27AAA1 SITE ID 344554091113201 OWNER - DR. V. PARDO ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)- (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
JUL , 19	83								
26	1200	6	187.00	120	18.0	1030			
AUG 02	1500	6	187.00	120	17.5	1170	7.3	440	500

WELL NO. 64 LOCAL NO. 02N02W27AAA1 SITE ID 344554091113201 OWNER - DR. V. PARDO ALLUVIAL AOUIFER - CONTINUED

DATE		TIME		AR- DIO NATE D -FLD SO G/L (M CO3) AS	RBON XIDE IS- LVED G/L CO2) 405)	HAR NES (MG AS CAC	S /L 03)	HARI NESS NONCA BONAT (MG/ CACO (0090	S, AR- FE /L O3)	CALC DIS- SOLV (MG, AS (IUM - /ED : /L : CA) /	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) DO925)	SODI DIS SOLV (MG AS (009	- ED /L PER(NA) SOI	DIUM
AUG ,		1500		0	40		470		29	120		41	60		22
DATE		TIME	SOF	AD- S AP- D ADN SO ADN SO ADN AS	TAS- IUM, IS- LVED G/L K) 935)	CHL RID DIS SOL (MG AS	E, - VED /L CL)	SULFA DIS- SOLV (MG, AS SO (0094	- /ED /L 04)	NITTI GEI NO2+I DIS SOLV (MG, AS I	N, 1 NO3 1 S- VED 5 /L (N)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) DO950)	SILI DIS SOL (MG AS SIO	- AT 1 VED DEC //L DI SOI (2) (MC	IDUE 180 G. C IS- LVED G/L)
JUL , 26		1200				100									
AUG 02	•	1500		1	3.1	100		64	4	<	•10	•20	3	4	694
	DATE AUG , 02	1983	TIME 3 1500	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOI (UC AS (O10	(S- LVED G/L FE)	NES SOI (UC AS	NGA- SE, IS- LVED G/L MN) D56)	SOL (MC AS (718	S- VED G/L I)	LITHII DIS- SOLVI (UG/1 AS LI	ED S L (I) A	ORON, DIS- OLVED UG/L S B) 1020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	
			WELL NO.		AL NO. UVIAL			ЭСВСІ	SITE	E ID	3445190	091144	001 OW	NER - BEI	RT HICKS
DATE	TIME	ı.	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEI OI WEI TOT (FI	LL, TAL SET)	R/ (Gl	LOW ATE PM) D58)	TEMP ATU (DEC (OOC	JRE G C)	SPE- CIFIC CON- DUCT- ANCE (µS/ cr (0009)	- (s n) UN	PH TAND- ARD ITS) 0400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
MAY , 196	1 -		6	186.00	110)	1700)]	8.0	4:	33	8.0	10	221
DATE	TIME	ı	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	DIOX [U	IS - LVED G/L CO2)	NE: (MC AS CAC	G/L	HAR NES NONG BONA (MC CAC	SS, CAR- ATE G/L CO3)	CALCII DIS- SOLVI (MG/I AS CA	UM ED S L (A) A	AGNE- SIUM, DIS- OLVED MG/L S MG) 0925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
MAY , 196 25	1		270	0		4.3		210		0	58		17	18	15

WELL NO. 65 LOCAL NO. 02N02W29CBC1 SITE ID 344519091144001 OWNER - BERT HICKS ALLUVIAL AQUIFER - CONTINUED

MAY , 1961		.6	2.5	16	8.2	.16	292	250	2700	0
DATE	TIME	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRATE DIS- SOLVED (MG/L AS N) (00618)	AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	CONSTI- THENTS, DIS- SOLVED (MG/L) (70301)	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	NESE, DIS- SOLVED (UG/L AS MN) (01056)
		SODIUM	POTAS-	CHLO-		NITRO- GEN.	SOLIDS, RESIDUE	SOLIDS,	IRON.	MANGA-

WELL NO. 66 LOCAL NO. 02N02W32RDB1 SITE ID 344446091142301 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DHCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	183.00	18.0	500	12

WELL NO. 67 LOCAL NO. 02N02W35DDD2 SITE ID 344410091103002 ALLUVIAL AQUIFER

DATE	TIME	MED IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	983 1510	6	185.00	17.5	600	16

WELL NO. 68 LOCAL NO. 02N03W01CDD1 SITE ID 344841091161601 OWNER - BORBIE FULLER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	98 3 1445	6	186.00	17.5	790	78

WELL NO. 69 LOCAL NO. 02N03W01DAD1 SITE ID 344854091154501 OWNER - FULLER FARMS ALLUVIAL AOUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE, DATUM CON-DIS-SOLVED TEMPER-DUCT-(FT. MEDIUM ABOVE ATURE ANCE (MG/L NGVD) (DEG C) DATE TIME (µS/cm) AS CL) (72000) (00010) (00095)(00940) JUL , 1983 29 . . . 1200 6 188.00 18.0 680 68

WELL NO. 70 LOCAL NO. 02N03W12CAA1 SITE ID 344806091162401 OWNER - ROY GRIZZLE NO. 1 ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-DEPTH SURFACE CIFIC RIDE, DATTIM OF CON-DIS-SOLVED WELL, TEMPER-OUCT-(FT. MEDIUM ABOVE TOTAL ATURE ANCE (MG/L DATE TIME NGVD) (FEET) (DEG C) (µS/cm) AS CL) (72000) (72008)(00010) (00095)(00940) SEP , 1982 184.00 112 17.0 1050 200 10... 6

WELL NO. 71 LOCAL NO. 02N03W12DAD1 SITE ID 344801091155001 OWNER - J. B. MILEY ALLUVIAL AQUIFER

ELEV. OF LAND SPE-ALKA-BICAR-CARBON SURFACE DEPTH LINITY BONATE CAR-DIOXIDE CIFIC DATUM OF CON-PH FIELD FET-FLD BONATE DIS-(FT. WELL, TEMPER-DUCT-(STAND-(MG/L (MG/L FET-FLD SOLVED MEDIUM ABOVE TOTAL ATURE ANCE ARD AS AS (MG/L (MG/L TIME CACO31 DATE NGVD1 (FEET) (DEG C) (us/cm) UNITS HCO31 AS CO31 AS CO2) (72000) (00095)(00440) (72008)(00010)(00400)(00410) (00445) (00405)AUG , 1975 1215 180.00 130 19.5 1480 6.7 259 320 0 100 SOLIDS, HARD-MAGNE-SODTUM CHI.O-RESIDUE SODIUM, HARD-CALCIUM SIUM, RIDE. NESS. AT 180 TRON. AD-NONCAR-SORP-NESS DIS-DIS-DIS-DEG. C DIS-DIS-(MG/L BONATE SOLVED SOLVED SOLVED TION SOLVED DIS-SOLVED

AS (MG/L (MG/L (MG/L (MG/L RATIO (MG/L SOLVED (UG/L DATE TIME CACO3) CACO3) AS CA) AS MG) AS NA) AS CL) (MG/L) AS FE) (00900)(00902)(00915)(00925)(00930)(00931)(00940)(70300)(01046)AUG , 1975 1215 340 80 91 27 150 4 280 1230 4000

WELL NO. 72 LOCAL NO. 02N03W13ABB1 SITE ID 344743091161301 OWNER - ROY GRIZZLE NO. 2 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
SEP ,		6	183.00	E100	17.5	1500	380	
	WELL NO. 73		. 02N03W1 AQUIFER	3DDD1 SIT	E ID 3446	510911548	01 OWNER -	- ROY GRIZZLE NO. 3
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
SEP ,								
JUN ,	1983	6	182.00	E100	17.5	965	150	
JUL		6	182.00			1500	280	
26	1200 WELL NO. 74	LOCAL NO	182.00 . 02N03W2 . AQUIFER	3DCC1 SIT	18.0 E ID 3446	1420 020911716	270 01 OWNER -	- ROY GRIZZLE NO. 4
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
SEP ,		6	182.00	117	17.5	445	24	
	WELL NO. 75		. 02N03W2 AQUIFER	5ABC1 SIT	E ID 3445	500911612	01 OWNER -	- ROY GRIZZLE NO. 6
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
SEP ,		6	181.00	E100	17.5	510	55	

WELL NO. 76 LOCAL NO. 02N03W25BBB1 SITE ID 344559091165001 OWNER - ROY GRIZZLE NO. 5 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT- ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
SEP , 19	82	6	186.00	E100	17.5	525	60	
JUL , 19	83 1200	6	186.00		18.0	555	29	

WELL NO. 77 LOCAL NO. 02N03W26BDC1 SITE ID 344535091173201 OWNER - TOWNSEND ESTATE ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	1035	6	185.00	115	17.5	640	20

WELL NO. 78 LOCAL NO. 02N03W26CBB1 SITE ID 344535091175201 OWNER - JOHN B. MOORE QUARTERNARY AQUIFER

WATER QUALITY DATA

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (OOO95)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	83					
21	1700	6	190.00		575	30
AUG						
16	1100	6	190.00	17.5	570	29

WELL NO. 79 LOCAL NO. 02N03W26CCA1 SITE ID 344516091174001 OWNER - RAY TOWNSEND ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	188.00	116	18.0	550	18

WELL NO. 80 LOCAL NO. 02N03W27DDD1 SITE ID 344509091175601 ALLUVIAL AOUIFER

		ALLUVIAL ACCIF	r.ĸ						
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			
AUG , 1983	1000	6	185.00	17.5	580	28			
WELL NO.	81	LOCAL NO. 02NO ALLUVIAL AQUIF		SITE ID	344425091	.175202 OW	ver – Towns	SEND ESTATE	
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			
JUL , 198	3 1200	6	186.00	18.5	482	29			
WELL NO.	82	LOCAL NO. 03NO ALLUVIAL AQUIF		SITE ID	345250091	.072801 OW	NER - HAROI	LD MASON NO. 3	3
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER-ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			
SEP , 198	2 _	- 6	190.00	16.5	705	50			
WELL NO.	83	LOCAL NO. O3NO ALLUVIAL AQUIF		SITE ID	345254091	.075001 ০খা	NER - HAROI	LD MASON NO. :	2
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			

190.00

16.5 700 20

SEP , 1982

-- 6

LOCAL NO. 03N01W17BDA1 SITE ID 345236091073501 OWNER - HAROLD MASON NO. 4 WELL NO. 84 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			
SEP , 198	2	6	190.00	17.0	535	35			
WELL NO.		OCAL NO. 03NG LLUVIAL AQUII		SITE ID	345215091	074601 OWNER -	- HAROLD	MASON NO	n. 5
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)			

720

45

17.0

WELL NO. 86 LOCAL NO. 03N01W18DDC1 SITE ID 345204091081601

ALLUVIAL AQUIFER

190.00

SEP , 1982 10...

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
DATE	TIME	MEDIUM	(FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	DUCT- ANCE (µS/cm) (00095)	SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	191.00	18.0	705	16

WELL NO. 87 LOCAL NO. 03N01W19DCC1 SITE ID 345111091083301 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	186.00	18.0	720	16

WELL NO. 88 LOCAL NO. 03N01W20ABA1 SITE ID 345201091072101 OWNER - C. E. MITCHELL ALLUVIAL AQUIFER

DATE JUL , 198		MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
29	1200	6	189.00	18.0	/63	24		
WELL NO.		AL NO. 03N		SITE ID	345201091	065601		
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
JUL , 198			100.00	10.0	000			
28	1200	6	190.00	18.0	990	55		
WELL NO.		AL NO. 03N VIAL AQUI		SITE ID	345019091	072801 OW	NER - M.	M. LUSK
MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (\u03B2S)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (90080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
6	190.00	130	463	17.0	636	7.9	5	338
BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR-	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
	0	8.2	330	0	86	29	23	13
410	· ·							

DATE TIME

JUL , 1961 19...

DATE TIME

JUL , 1961 19...

DATE TIME

JUL , 1961 19...

.6 2.0 25 29 .23 371 390 3200

110

WELL NO. 91 LOCAL NO. 03N01W32DDD1 SITE ID 344925091070701 ALLUVIAL AOUIFER

		ALLUVIAL AUUIFER			
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 198	3 1355	6 188.00	17.5	900	24
WELL NO.	92	LOCAL NO. O3NO1W33CBC	i SITE ID	344938091	070501
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 198 28	3 1200	6 189.00	18.0	825	19
WELL NO.	93	LOCAL NO. 03NO2W01DBA ALLUVIAL AQUIFER	.1 SITE ID	345412091	092701
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 198 28	3 1200	6 190.00	17.0	1060	53
WELL NO.	94	LOCAL NO. 03NO2W02ABA ALLUVIAL AOUIFER	.1 SITE ID	345436091	103301
DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. MEDIUM ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)

860 40

JUL , 1983 28... 1200 6 190.00 17.0

WELL NO. 95 LOCAL NO. 03N02W03DDB1 SITE ID 345357091113001 OWNER - COTTON BELT RAILROAD ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
FEB ,	1952	6	200.00	148	18.0	730	8.0	350	430
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRATE DIS- SOLVED (MG/L AS N) (00618)	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
FEB ,	1952	0	6.8	370	25	32	22	.25	2400

WELL NO. 96 LOCAL NO. 03N02W04BDC1 SITE ID 345422091130401 OWNER - BROWN ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983					
14	0800	6	.192.00	17.0	1010	120
14	0900	6	192.00	17.0	2080	420

WELL NO. 97 LOCAL NO. 03N02W04CCD1 SITE ID 345350091131301 OWNER - LEHMAN FOWLER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , :	1952	6	192,00	160		17.0	498	8.4	185
JUN ,	1953	v	172.00	100		17.0	470	0.4	100
22 AUG		6	192.00	160		17.0	729	7.4	328
24 JUN ,		6	192.00	160		17.0	749	7.3	328
20 SEP		6	192.00	160	110		1080	7.4	358
10		6	192.00	160			955		
28	1200	6	192.00	160		17.0	1040		

WELL NO. 97 LOCAL NO. 03N02W04CCD1 SITE ID 345350091131301 OWNER - LEHMAN FOWLER ALLUVIAL AOUIFER - CONTINUED

DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
JUL , 1952	2	220	4	1.4	210	30			
JUN , 1953 22	3	400	0	25	330	0	91	24	
AUG 24		400	0	32	330	0	130	3.3	
JUN , 1975 20	·	440	0	28	410	53	110	33	58
DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
JUL , 1952			50	12	•11	.20			2700
JUN , 1953 22 AUG		*****	49	14	•00				2700
24 JUN . 1975			50	13	•05				2400
20 SEP , 1982		1	100				485	640	
10 JUL , 1983	3		110						*****
28	1200		100						

WELL NO. 98 LOCAL NO. 03N02W05BBB1 SITE ID 345442091142301 OWNER - SUNNY FARMS NO. 3 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 0 9 45	6	196.00	17.0	3050	770

WELL NO. 99 LOCAL NO. 03N02W05BCB1 SITE ID 345430091142401 OWNER - SUNNY FARMS NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	98 3 0 93 0	6	196.00	17.0	2900	720

WELL NO. 100 LOCAL NO. 03N02W06DDD1 SITE ID 345351091142801 OWNER - BARNEY WATTS ALLUVIAL AQUIFER

DATE	TIME	MED IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR , 19	985 1115	6	190.00	16.5	533	50

WELL NO. 101 LOCAL NO. 03N02W08ADA1 SITE ID 345335091132501 OWNER - PINEY FARMS ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUN , 19	75								
20 JUN , 19	83	6	191.00	160	110		990	7.4	346
14	0840	6	191.00	160		17.0	1030		
03 SEP	1300	6	191.00	160		18.0	1020	7.3	420
03	1300	6	191.00	160					
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
JUN , 19 20 AUG , 19		420	0	27	380	36	100	32	49
03	1300	470	0	37	410	0	110	33	57
SEP , 19	1300	470	0						
DATE	TIME	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
JUN , 19 20 JUN , 19			1		75				
14	03				120			-	
AUG 03	1300	23	1	1.8	100	10	<.10	•30	35

WELL NO. 101 LOCAL NO. 03N02W08ADA1 SITE ID 345335091132501 OWNER - PINEY FARMS

ALLUVIAL AGUIFER - CONTINUED

SOLIDS, SOLIDS, RESIDUE SUM OF MANGA-BROMIDE AT 180 CONSTI-IRON, NESE, IODIDE, LITHIUM BORON, DIS-DIS-DIS-DEG. C TUENTS. DTS-DIS-DIS-SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED DTS-DIS-SOLVED SOLVED (UG/L (UG/L (MG/L (UG/L (UG/L (MG/L AS MN) AS I) AS BR) DATE TIME (MG/L) (MG/L) AS FE) AS LI) AS B) (70300) (70301) (01046) (01056) (71865) (01130) (01020) (71870) JUN , 1975 20... AIJG , 1983 03... 1700 465 1300 588 580 2800 300 .020 17 .66

> WELL NO. 102 LOCAL NO. 03N02W08BAA1 SITE ID 345349091135601 OWNER - MRS. MACIE OAKS ALLUVIAL AQUIFER

ELEV. CHLO-OF LAND SPE-SURFACE DEPTH CIFIC RIDE, DATUM OF CON-DIS-SOLVED (FT. WELL TEMPER-DUCT-MEDIUM ABOVE TOTAL ATURE ANCE (MG/L (FEET) TIME NGVD) (µS/cm) (00095) AS CL) DATE (DEG C) (72000) (72008)(00010) (00940)

MAR , 1985 07... 1230 6 192.00 50.00 15.5 700 38

WELL NO. 103 LOCAL NO. 03N02W08BBA1 SITE ID 345349091141201 OWNER - WILLIE CALAHAN ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE, DATUM CON-DIS-SOLVED TEMPER-DUCT-(FT. ABOVE MEDIUM ANCE (MG/L ATURE DATE NGVD) (DEG C) (µS/cm) TIME AS CL) (72000) (00010) (00095)(00940) MAR , 1985 191.00 07... 1145 6 17.0 638 27

WELL NO. 104 LOCAL NO. 03N02W08CAA1 SITE ID 345323091135701 OWNER - LEW E. SORRELLS NO. 1 ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE. DATUM CON-DIS-(FT. TEMPER-DUCT-SOLVED MEDIUM ABOVE ATURE ANCE (MG/L DATE TIME NGVD) (DEG C) (µS/cm) AS CL) (00095) (72000)(00010)(00940) JUN , 1983 14... 190.00 17.0 1040

WELL NO. 105 LOCAL NO. 03N02W08CDA1 SITE ID 345306091135901 OWNER - LEW E SORRELLS ALLUVIAL ACUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SAM- PLING DEPTH (FEET)	CI CC DU AN (µS	ICE (cm) I	PH (STAND- ARD JNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)		CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
JUN , 197	5	6	188.00	_	_	933	7.6				
20 JUL		6	188.00		-	919	7.6				
01	1000	6	188.00	120		938	7.2	379	460	0	46
DATE	TIME	HAR NES (MG AS CAC (009	S NONC S/L BONA MC CO3) CAC	S, CAI CAR- D: TE SC G/L (1 CO3) A:	LCIUM IS- OLVED MG/L S CA) O915)	MAGNI SIUM DIS- SOLVI (MG/1 AS MG	M, SODI - DIS ED SOLV L (MG G) AS	UM, A - SOI ED TI /L RA' NA)	AD- RII RP- DI ION SOI IIO (M AS	S- D LVED SO G/L (U CL) AS	ON, IS- LVED G/L FE) O46)
JUN , 17 20 JUL		•	 				 		8: 7:		
01	. 1000		380	0 10	00	31	50		1 7	6	4000

WELL NO. 106 LOCAL NO. 03N02W08DCD1 SITE ID 345258091134201 OWNER - LEW E. SORRELLS NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	OF SUR DA (AB NG	EV. LAND FACE TUM FT. OVE VD)	DE (F	M- ING PTH EET) OO3)	DU AN (µS	FIC N- CT-	(ST A UNI	H AND- RD TS) 400)	LIN FI (M A CA	ELD G/L	BICA BONA FET-1 (MG, AS HCO'	ATE FLD /L	CAR- BONATF FET-FLI (MG/L AS CO3) (00445)	S () AS	ARBON OXIDE DIS- OLVED MG/L CO2) O405)
JUN , 197	5																
30		6	18	6.00				731		7.7							
JUL 03		6	18	6.00				731		7.7							
13	1100	6		6.00	12	0		732		7.1		364		440	(56
				HAR	n			MAG	NE.			SODI	ruw	CHLO			
		HA	RD-	NES		CALCI	TUM		UM.	SODI	IJM.	Af		RIDE		ON.	
		NE:		NONC	. ,	DIS-		DI		DIS		SORI		DIS-		IS-	
			G/L	BONA	ΓE	SOLV	/ED	SOL		SOLV	ED	TIC	N	SOLV	ED SO	LVED	
		A:		(MG		(MG/		(MG		(MG		RATI	[0	(MG/		G/L	
DATE	TIME		CO3) 900)	CAC (009)		AS (AS (009		AS (009		(0093	31)	AS C (0094		FE) 046)	
JUN ,	1975																
30														24			
JUL																	
03														22			
13	. 1100		340		0	90		28		27			•7	22		2800	

WELL NO. 107 LOCAL NO. 03N02W09AAA1 SITE ID 345345091122301 OWNER - WAYNE PATTERSON ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET (72008	SAM PLI DEP) (FE	NG TEM TH AT ET) (DE	PER- URE G C) 010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , 19	52		100.00	100			17.0	550	0.1	225
11 JUN , 19:	53	6	190.00	120			17.0	550	8.1	235
22 · · · AUG		6	190.00	120			17.0	710	7.4	344
24 JUN , 19	75	6	190.00	120			17.0	725	7.3	343
20		6	190.00	120	110			860	7.4	326
JUL , 19		6	190.00	120			17.0	780	7.4	
JUL , 198 28	1200	6	190.00	120			17.5	920		
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBO DIOXID DIS- SOLVE (MG/L AS CO2 (00405	E HAR NES D (MG AS) CAC	D- NE S NON /L BON (M O3) CA	RD- SS, CAR- ATE G/L CO3) 902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
JUL , 19	52	290	0	3.	6	280	43			
JUN , 19:		420	0	27		330	0	93	24	
AUG 24		420	0	33		340	0	130	3.7	
JUN , 19	75 	400	0	25		350	24	92	29	31
DA	TE TIMF	SO T RA	AD- RI RP- DI TION SC TIO (M AS	S- DLVED IG/L IGL) A	ULFATE DIS- SOLVED (MG/L S SO4) 00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	DEG DI SOL (MG	DUE 180 II 3. C II IS- SE LVED (II G/L) AS	RON, TO DIS- RI DLVED EI UG/L (1 S FE) AS	RON, DTAL ECOV- RABLE UG/L S FE) LO45)
	, 1952				• •	20				1700
JUN	, 1953	_		6	9.0	.29				1700
AUG				15	12	.29				2400
JUN	 , 1975			15	12	•05				1900
	, 1976		.7 4	0				444	2100	
06	 , 1983			8						
28	1200)	5	3						

WELL NO. 108 LOCAL NO. 03N02W10ADA1 SITE ID 345334091111801 OWNER - FERRPLL COOPER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
FEB , 19	52	6	200.00	100	18.0	1520	8.1	348	420
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
FEB , 19	52	0	5.4	460	110	150	250	.36	6900

WELL NO. 109 LOCAL NO. 03N02W10DAC1 SITE ID 345315091112201 OWNER - STANDARD ICE CO. ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
OCT , 194	49					÷		•		
27 JAN , 1952 24 FEB 05 JUN , 1953 09 AUG 24	52	6	_			1140	7.6	407	500	0
		6	200.00	147		1140	7.7	409	500	0
		6	200.00	147	18.0	1130	7.8	404	490	0
	-	6	200 • 00	147	18.0	1140	7.8	413	500	0
		6	200.00	147	18.0	855	8.4	205	230	8
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT , 194	49 —	DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)
OCT , 194 27 JAN , 195 24	49 —	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM (00932)	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT , 194 27 JAN , 195 24 FEB 05	49 52	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM (00932)	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT , 194 27 JAN , 195 24 FEB	49 52	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM (00932)	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)

WELL NO. 109 LOCAL NO. 03N02W10DAC1 SITE ID 345315091112201 OWNER - STANDARD ICE CO. ALLUVIAL AQUIFER - CONTINUED

DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)
OCT , 1949	1									
27 JAN , 1952		100	78	•52	•00	31	750	720	1600	6100
24 • • •		99	80	•32					3300	
05		210	78	.36					33 00	
JUN , 1953		100	84	.43					3000	
AUG 24		100	72	•45					30	

WELL NO. 110 LOCAL NO. 03N02W10DBC1 SITE ID 345313091114701 OWNER - CITY OF BRINKLEY NO. 1 ALLUVIAL AQUIFER

DATE	TIME	OF SI I	ELEV. F LAND URFACE DATUM (FT. ABOVE NGVD) 72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
OCT , 194	49 	6	205.00	143	955	372	450	0
DATI	E TIME	HARD- NESS (MG/L AS CACO3 (00900)		S, RID AR- DIS CE SOI (L (MC O3) AS	DE, SUL1 S- DIS VED SOI G/L (MC CL) AS S	GF FATE NITE S- DI LVED SOI G/L (MC GO4) AS	IS- REC LVED ERA G/L (UG N) AS	CAL COV- BLE G/L FE)
0 CT	, 1949	. 240	า	0 82		12	.18 13	.000

WELL NO. 111 LOCAL NO. 03N02W10DBC2 SITE ID 345313091114801 OWNER - CITY OF BRINKLEY NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm (00095	PH (STAND- ARD) NITS)	AS CACO3)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN , 1940 26	5	6	205.00	192	17.0	107	0 7.1	420	510	0
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE SIUM DIS- SOLVE (MG/L AS MG	, SODIUM, DIS- D SOLVED (MG/L) AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUN , 194	6 	64	510	93	140	42	69	22	1	15
DATE	TIME	CHL RID DIS SOL (MG AS (009	E, SULF - DIS VED SOL /L (MG CL) AS S	- DI VED SOL /L (MC 04) AS	DE, DI S- SO VED (M C/L A F) SI	ICA, RE S- AT LVED D G/L S S O2) (SIDUE SUM 180 CON EG. C TUE DIS- C OLVED SC MG/L) (M	DIS- ERA DLVED (UC	CAL TOT COV- REC LBLE ERA G/L (UC FE) AS	IM, CAL COV- LBLE S/L AL)
JUN , 26		150	5	6	.00	30	832	740 . 2	200 42	000

WELL NO. 112 LOCAL NO. 03N02W10DBC5 SITE ID 345313091114901 OWNER - CITY OF BRINKLEY NO. 6 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
OCT , 1	961 —	6	206.00	150	18.0	787	7.6	0	123	150
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)
OCT , 1	961	0	6.0	200	79	33	29	88	48	3

WELL NO. 112 LOCAL NO. 03N02W10DBC5 SITE ID 345313091114901 OWNER - CITY OF BRINKLEY NO. 6
ALLUVIAL ACUIFER - CONTINUED

OCT , 1961 09... — 3.4 120 93 .30 12 490 450 0

WELL NO. 113 LOCAL NO. 03N02W11AAA1 SITE ID 345345091101501 ALLUVIAL AOUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE, DIS-SOLVED DATUM CON-TEMPER-(FT. DUCT-ABOVE MEDIUM ATURE ANCE (MG/L NGVD) (DEG C) AS CL) DATE TIME (µS/cm) (72000) (00010) (00095) (00940)

JUL , 1983 28... 1200 6 190.00 17.5 925 65

WELL NO. 114 LOCAL NO. 03N02W13ADD1 SITE ID 345228091091901 ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-SURFACE CIFIC RIDE, DATUM CON-DIS-(FT. TEMPER-DUCT-SOLVED MEDIUM ABOVE ATURE ANCE (MG/L DATE TIME NGVD) (DEG C) $(\mu S/cm)$ AS CL) (72000) (00010) (00095)(00940) JUL , 1983 28... 1200 186.00 800 18.0 21

WELL NO. 115 LOCAL NO. 03N02W14DAC1 SITE ID 345217091103001 ALLUVIAL AQUIFER

ELEV. OF LAND SPE-CHLO-SURFACE DEPTH RIDE, CIFIC DATUM OF DIS-SOLVED (FT. WELL, TEMPER-DUCT-MEDIUM ABOVE TOTAL ATURE ANCE (MG/L DATE TIME NGVD) (FEET) (DEG C) AS CL.) (uS/cm) (00095)(00940) (72000) (72008)(00010) AUG , 1984 08... 1610 196.00 130 17.0 1200 100

WELL NO. 116 LOCAL NO. 03N02W16AAA1 SITE ID 345251091122501 OWNER - W. M. DICKSON ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 1745	6	190.00	160	17.0	860	39

WELL NO. 117 LOGAL NO. 03N02W18ABB1 SITE ID 345252091150301 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	FLEV. OF LAND SURFACE DATUM (FT. AROVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 1520	6	177.00	17.0	1030	120

WELL NO. 118 LOCAL NO. 03N02W20ADC1 SITE ID 345139091134101 OWNER - J. B. MILEY ALLUVIAL AQUIFER

DATE	Time	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
AUG , 19	175 1100	6	182.00	120	120	17.5	750	6.6	338	410	0
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
AUG , 19	975 1100	164	330	0	88	27	30	.7	60	419	2500

WELL NO. 119 LOCAL NO. 03N02W21ADC1 SITE ID 345138091123301 OWNER - FRANK MORGAN ALLUVIAL AOULFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010	ANCE) (µS/cr	PH - (STANI ARD n) UNITS	AS CACO3	BONA FET-F (MG/ AS) HCO3	TE CAR- LD BONATE L FET-FLD (MG/L) AS CO3)
SEP , 197	1030	6	190.00	146	146	18.0	0 118	30 7.	.3 35	9 4	40 0
SEP , 198		6	190.00	146		17.0	n 90	00 -		-	
AUG , 198		6	190.00	146		17.	5 102	20 -		-	
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM DIS- SOLVEI (MG/L AS MG	, SODIUM DIS- D SOLVEM (MG/M	SORP- D TION L RATION	RIDE, DIS- N SOLVED (MG/L AS CL	AT 18 DEG. D DIS SOLV) (MG/	UE D IRON, C DIS- SOLVED ED (UG/L L) AS FE)
SEP , 197	5 1030	35	370	15	100	30	82	2	75	6	20 2700
SEP , 198				_			_		78		
AUG , 198						_			96		
		WELL	ELEV.		0. 03N02W L AQUIFER	21 CAC1 S	ITE ID 34				E ROEDIGER CARBON
DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	CIFIC CON- DUCT- ANCE (µS/cm)	PH (STANI ARD UNITS)	AS CACO	Y BONAT D FET-FL L (MG/L AS 3) HCO3)	E CAR D BONA FET-F (MG/ AS CO	- DIOXIDE TE DIS- LD SOLVED L (MG/L 3) AS CO2)
AUG , 197 27 SEP , 198	1000	6	186.00	130	19.0	1360	0 6	.3 3!	99 49	n	0 387
03 JUN , 198		6	186.00	130	19.0	1126	n -			-	
15		6	186.00	130	17.0	1120	o -			-	
DAT	E TIME	NE (M A E CA	RD- NE SS NON IG/L BON AS (** ACO3) CA	ICAR- DIATE SOIG/L (1ACO3) AS	LCIUM IS- OLVED SOMG/L (1 S CA) A	DIS- DLVED S MG/L S MG)	ODIUM, DIS- OLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO (00931)	CHLO- R RIDE, A' DIS- SOLVED (MG/L AS CL)	OLIDS, ESIDUE T 180 DEG. C DIS- SOLVED (MG/L) 70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
27.)	410	16 1	10	34	96	2	120	648	3 100
SEP 03.	, 1982								130		
	, 1983)							140		

WELL NO. 121 LOCAL NO. 03N02W22ACD1 SITE ID 345116091110501 OWNER - CARL RIDDELL ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR , 19	85 1400	6	206 • 00	65.00	17.0	692	28

WELL NO. 122 LOCAL NO. 03N02W23CCD1 SITE ID 345142091114301 OWNER - BILL NORMAN ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR , 19							
06	1630	6	206.00	100	15.0	1220	130

WELL NO. 123 LOCAL NO. 03N02W23DAB1 SITE ID 345135091102901 ALLUVIAL AQUIFER

CT C1/

DATE	TIME	MED LUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
AUG , 198		,	100 00	10.0	1000		160	510		,,	440
03	1420	6	192.00	18.0	1000	7.3	460	510	0	41	440
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
AUG . 198	33										
03	1420	0	120	35	37	15	.8	2.3	47	40	<.10
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS 8) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 198	33 1420	•20	31	553	570	2900	300	•020	18	20	-41
03	1720	• 20	31	223	3717	27(1)	300	•()20	10	20	• 4 1

WELL NO. 124 LOCAL NO. 03N02W23DBB1 SITE ID 345134091104701 OWNER - GEISLER

ALLUVTAL.	AOULFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (OD010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN , 1	953									
22		6	195.00	128	17.0	810	7.3	405	490	0
SEP 15		6	195.00	128	17.0	776	7.9	368	450	0
13		v	173.00	12.0	1, •.,	,,,	, •,	300		-
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
		(00405)	(00900)	(00902)	(00915)	(00925)	(00940)	(00945)	(00618)	(01045)

WELL NO. 125 LOCAL NO. 03N02W24BBB1 SITE ID 345200091100901 OWNER - GEISLER FARMS ALLUVIAL AOUIFER

AUG , 19	TIME 184 1515	6	NGVD) (72000)	(FEET) (72008)	(DEG C) (00010)	(μS/cm) (00095)	AS CL) (00940)
		MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE	DEPTH OF WELL, TOTAL	TEMPER-	SPE- CIFIC CON- DUCT- ANCE	CHLO- RIDE, DIS- SOLVED (MG/L

WELL NO. 126 LOCAL NO. 03N02W25CDC1 SITE ID 345020091100201 OWNER - BRUCE MARTIN ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (US/cm)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
AUG , 19	84 1400	6	192.00	130	17.5	871	71

WELL NO. 127 LOCAL NO. 03N02W26AAB1 SITE ID 345103091103301 OWNER - VERN VAUER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DEPTH OF WELL, TOTAL (FEET)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
01114	12.10		(72000)	(72008)	(00010)	(00095)	(00940)
AUG , 19	84						
08	1445	6	193.00	130	17.5	980	56

WELL NO. 128 LOCAL NO. 03N02W27CCA1 SITE ID 345029091121201 ALLUVIAL AQUIFER

	DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (US/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
	AUG , 09		6	185.00	130	17.0	1050	71	
		WELL NO. 129		0. 03N02W2 AOUIFER	7DAC1 SIT	TE ID 3450	380911132	OI OWNER	- JAMES SHARP
	DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
	MAR ,		6	206.00	90.00	14.0	1080	65	
		WELL NO. 130		0. 03NO2W2 . AQUIFER	8BBB1 SIT	TE ID 3451	090911320	OI OWNER	- JOHN RAY
DATE	TIME	OF SU D MEDIUM A N	BOVE AT GVD) (DE	CO IPER- DU CURE AN CG C) (µS	FIC N- P CT- (SI CE A /cm) UNI	LINPH FI CAND- (MARD A CTS) CA	IITY BO ELD FET IG/L (M IS A ICO3) HO	-FLD BO IG/L FET AS (M CO3) AS	CARBON DIOXIDE NATE DISFILD SOLVED G/L (MG/L CO3) AS CO2) 445) (00405)
JUN , 1953		6 1	85.00	18.0	922	7.4	410	500	0 32
AUG 24		6 1	85.00	17.0	941	7.5	409	500	0 25
DATE	TIME	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
JUN , 22		400	0	110	31	76	2.0	•00	4300
		WELL NO. 131		0. 03NO2W2 . AOUIFER EL	8CDD1 SIT	re ID 3450	200911302	201	
		DATE TIM		OF SUR DA (DIUM AB NG	LAND FACE TUM FT. TEM OVE AT VD) (DE	CI CO IPER- DII TURE AN EG C) (µS	FIC RI N- DI ICT- SO ICE (M	ILO- IDE, IS- OLVED IG/L IS CL)	
		TUL , 1983 29 120	n	6 18	6.00	18.5	1140 15	00	

WELL NO. 132 LOCAL NO. 03N02W29CBA1 SITE ID 345040091142301 OWNER - MRS. A. W. WARD ALLUVIAL AOUIFER

DATE	TIME		ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	O WE TO (F	PTH F LL, TAL EET) 008)	R (G	LOW P ATE D PM) (SAM- PLING DEPTH FEET) 00003)	TEMP ATU (DEG (000	CER- DIRE A	PE- IFIC ON- UCT- NCE S/cm) 0095)	AI IINI	H AND- RD IS)	COLOR (PLAT- INUM- COBALT UNITS) 00080)
JUL , 1952	_	6	191.00	130	6		_		,	6.5	554		8.6	
JUN , 1953 22		6	191.00	13						7.0	802		7.3	
AUG		6											7.4	
24 MAR , 1961			191.00	13	0					7.0	786			
29 AUG , 1974		6								7.0	634		7.4	5
07 15	1330	6 6	191.00	13		160	0 1	.13		7.0 7.0	436 435		7.2	
DATE	TIME	ALKA LINIT FIEL (MG/ AS CACO (0041	Y BO! D FET- L (MG AS 3) HCG	03)	CAR BONA FET-F (MG/ AS CO	TE LD L (3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HAR NES (MG AS CAC	S /L 03)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALC DIS- SOL (MG AS (009	- VED /L CA)	MAGNE SIUM DIS- SOLVE (MG/L AS MG (00925	n)
JUL , 11		. 1	61	170		12	.7		200	39			-	_
JUN , 22	1953	. 3	31	400		0	32		310	0	85		23	
AUG 24 MAR ,	1061	. 3	11	380		0	24		310	0	120		4.2	
29 AUG ,		. 2	84	350		0	22		280	0	75		23	
07		. 1	99	240		0	24		1 9 0	0	50		16	
DATE	TIME	SODIU DIS- SOLVE (MG/ AS N	D L PERO A) SOI	CENT DIUM 932)	SODI AD SORP TIO RATI	- N O	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	RID DIS SOL (MG AS	E, - VED /L CL)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	DI SOL' (MG AS	N, ATE S- VED /L N)	NITRO GEN, NO2+NO DIS- SOLVE (MG/L AS N) (00631	3 D
JUL ,	1952													
11 JUN ,	1953							86		2.0		•02	-	-
22 MAR ,								84		1.0		•00	-	-
29 AUG ,		31		19		.8	2.2	45		2.2		•41	-	-
07 JUN ,		16		15		•5	1.2	18		5.6			•3	7
15								24					-	-

WELL NO. 132 LOCAL NO. 03N02W29CBA1 SITE ID 345040091142301 OWNER - MRS. A. W. WARD ALLUVIAL AOUIFER - CONTINUED

DATE	TIME	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUL , 195	52							6100	
JUN , 195 22	53 							4200	
AUG 24								2800	· —
MAR , 196			•30	18	315	370		290	
AUG , 197		•290	•20	38	257	270	2500		220

WELL NO. 133 LOCAL NO. 03N02W30ACB1 SITE ID 345058091150201 OWNER - BOB KEMMER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 1400	6	186.00	17.0	320	12

WELL NO. 134 LOCAL NO. 03N02W31DBA1 SITE ID 344948091145801 OWNER - BOOTS MILEY ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
SEP , 19	75										
10 JUN , 19		6	188.00	132	120	18.0	595	7.3	235	290	0
21	1345	6	188.00	132		18.0	505				
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
DATE SEP , 19 10 JUN , 19 21	75 1100	DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	AD- SORP- TION RATIO	RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	DIS- SOLVED (UG/L AS FE)

WELL NO. 135 LOCAL NO. 03N02W32ARA1 SITE ID 345019091134801 ALLUVIAL AOHIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SHRFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DHICT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	186.00	18.0	775	53

WELL NO. 136 LOCAL NO. 03N02W32BBC1 SITE ID 345008091143101 OWNER - GLEN FULLER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
SEP , 198	2	6	191.00	124	17.0	430	-		
JUL , 198	3 1200	6	191.00	124	18.5	425			
AUG									
02	1215	6	191.00	124	17.5	469	7.4	230	260
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
AUG , 198	3								
02	1215	0	16	220	0	59	18	14	12
DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
SEP , 198	2								
09 JUL, 198	3			26					
27 • • • AUG	1200			20					
02	1215	•4	1.0	2 0	4.2	<.10	•20	35	256

WELL NO. 136 LOCAL NO. 03N02W32BBC1 SITE ID 345008091143101 OWNER - GLEN FULLER ALLUVIAL AQUIFER - CONTINUED

DATE	TIME	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	
AUG , 19	83 1215	280	2500	190	.010	9	20	.13	

WELL NO. 137 LOCAL NO. 03N02W32CBB1 SITE ID 344951091143001 OWNER - GLEN FULLER NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER-ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUL , 195	52	6	190.00	128	17.0	902	7.9	331	400	0
JUN , 195	:3	· ·	190.00	120	17.0	302	7.5	331	400	V
22		6	190.00	128	18.0	955	7.4		470	0
AUG 24		6	190.00	128	18.0	974	7.7	384	470	0
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
JUL , 195		DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
JUL , 195	52	DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	TOTAL RECOV- ERABLE (UG/L AS FE)
JUL , 195	52	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)

WELL NO. 138 LOCAL NO. 03N02W33DAA1 SITE ID 344952091123101 OWNER - HOWARD GIBBS ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	084 0945	6	191.00	105	17.5	1080	110

WELL NO. 139 LOCAL NO. 03N02W34ADD1 SITE ID 344954091112501 OWNER - ST. JOHN M. B. CHURCH ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	83					
22	1615	6	189.00		920	110
AUG , 19	84 1645	6	189.00	17.5	1210	160
00	1043	0	103.00	17.0	1210	100

WELL NO. 140 LOCAL NO. 03N02W36BDD1 SITE ID 344953091094801 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , I 28	983 1200	6	191.00	18.5	755	34

WELL NO. 141 LOCAL NO. 03N03W02ACD1 SITE ID 345420091165501 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	1200	6	179.00	17.5	200	3.8

WELL NO. 142 LOCAL NO. 03N03W02CAA1 SITE ID 345414091171201 OWNER - T. C. CARTER ESTATE ALLUVIAL AQUIFER

SAMPLE LOST

WELL NO. 143 LOCAL NO. 04N01W06DCA1 SITE ID 345916091081801 ALLUVIAL ADUIFER

DATE	TIME	MEDIUM	FLEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)		CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 198	3 1200	6	213.00	17.5	600	14
WELL NO.	144	LOCAL NO. 04N ALLUVIAL AQUI		SITE ID	345902091	072501

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
			(FT.	TEMPER-	DUCT-	SOLVED
		MEDIUM	ABOVE	ATURE	ANCE	(MG/L
DATE	TIME		NGVD)	(DEG C)	(µS/cm)	AS CL)
			(72000)	(00010)	(00095)	(00940)
AUG ,	1983					
17	0040		200 00	10 A	600	1.6

WELL NO. 145 LOCAL NO. 04N01W08ADD1 SITE ID 345845091065801 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)
JUL , 19	73	6	210.00	145	1720	17.0	790

WELL NO. 146 LOCAL NO. 04N01W16CCC1 SITE ID 345720091065601 OWNER - H. WATKINS INC. ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19						
17	0825	6	211.00	18.0	780	32

WELL NO. 147 LOCAL NO. 04N01W17ABD1 SITE ID 345804091071901 OWNER - ENGLER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , 196	1	6	207 • 00	130	1020	10 5	610	8.0	5	335
19		ь	207.00	130	1020	18.5	610	8.0	3	337
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
JUL , 196	1									
19	-	410	0	6.5	330	0	90	25	17	10
DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUL , 196	1	,		17	(0	16	206	2/0	250	
19		•4	1.9	17	6.0	.16	396	360	350	40

WELL NO. 148 LOCAL NO. 04N01W28BAD1 SITE ID 345618091063001 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)
JUL , 1	973	6	206.00	145	815	16.5	910

WELL NO. 149 LOCAL NO. 04N01W33ADC1 SITE ID 345509091060801 ALLUVIAL AGUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATIIM		CON-	DIS-
DATE	TIME	MEDIUM	(FT. ABOVE NGVD)	TEMPER- ATURE (DEG C)	DIICT- ANCE (µS/cm)	SOLVED (MG/L AS CL)
			(72000)	(00010)	(00095)	(00940)
AUG , 19	1130	6	212.00	17.5	900	48

WELL NO. 150 LOCAL NO. 04N02W01CCC1 SITE ID 345906091100301 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	1200	6	198.00	17.5	470	9.9
AUG , 19	1535	6	198.00	17.0	479	22

WELL NO. 151 LOCAL NO. 04N02W02ACA1 SITE ID 345935091101901 OWNER - THOMAS J. WILSON ALLUVIAL AQUIFER

MEDIUM	(FT. ABOVE NGVD) (72000)	WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	DUCT- ANCE (uS/cm) (00095)	DIS- SOLVED (MG/L AS CL) (00940)
					14
	MED IUM	(FT. MEDIUM ABOVE NGVD) (72000)	(FT. WELL, MEDIUM ABOVE TOTAL NOVD) (FEET) (72000) (72008)	(FT. WELL, TEMPER- MEDIUM ABOVE TOTAL ATURE NGVD) (FEET) (DEG C) (72000) (72008) (00010)	MEDIUM ABOVE TOTAL ATTRE ANCE NGVD) (FEET) (DEG C) (μS/cm) (72000) (72008) (00010) (00095)

WELL NO. 152 LOCAL NO. 04N02W04BBD1 SITE ID 350001091125701 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	182.00	17.5	170	.30

WELL NO. 153 LOCAL NO. 04NO2W05DCA1 SITE ID 345918091133601 ALLUVIAL AOUIFER

DATE	MEDIUM TIME		ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (OOO95)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	983 1120	6	188.00	17.0	225	5.9

WELL NO. 154 LOCAL NO. 04N02W11DCD1 SITE ID 345814091102801 OWNER - SWINDLE ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (OO095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	084 0815	6	200.00	130	17.5	465	31

WELL NO. 155 LOCAL NO. 04N02W11DDB1 SITE ID 345820091101801 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
AUG , 19	083 0755	6	200.00	17.5	670	34 .	

WELL NO. 156 LOCAL NO. 04N02W12AAB1 SITE ID 345857091091601 OWNER - ALFRED DENNEY ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	984 0945	6	210.00	135	17.5	568	26

WELL NO. 157 LOCAL NO. 04N02W12ADA1 SITE ID 345843091090201 OWNER - B. H. WARD ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (O0095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	983 1200	6	212.00	130	17.5	620	16

WELL NO. 158 LOCAL NO. 04N02W13DAB1 SITE ID 345742091091201 ALLUVIAL AQUIFER

		MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE	TEMPER-	SPE- CIFIC CON- DUCT- ANCE	CHLO- RIDE, DIS- SOLVED (MG/L	
DATE	TIME		NGVD) (72000)	(DEG C) (00010)	(µS/cm) (00095)	AS CL) (00940)	
JUL , 19	83						
28	1200	6	195.00	17.0	750	130	

WELL NO. 159 LOCAL NO. 04N02W15DBA1 SITE ID 345743091112601 OWNER - ED HEAVNER ALLUVIAL AQUIFER

Date	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	83						
12 AUG , 19	0850 984	6	202.00	60.00	19.0	550	16
08	1030	6	202.00	60.00	17.5	468	18

WELL NO. 160 LOCAL NO. 04N02W17CAD1 SITE ID 345733091135101 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPF- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 1 29	983 1200	6	176.00	17.0	210	3.0

WELL NO. 161 LOCAL NO. 04NO2W22CDC1 SITE ID 345627091115301 OWNER - TOMMY SNELSON NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19		6	201.00	110	18.0	738	44
JUN , 19	1030	6	201.00	110	17.0	760	38
AUG , 19	84 1115	6	201.00	110	18.0	760	52

WELL NO. 162 LOCAL NO. 04N02W22DDB1 SITE ID 345637091112601 OWNER - BUCK FILES NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
01 01 02 02	1540 1720 0825 1645 1330	6 6 6 6	203.00 203.00 203.00 203.00 203.00	16.0	540 560 580 580 585	16 16 16 18

WELL NO. 163 LOCAL NO. 04N02W24ABA1 SITE ID 345714091092101 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG , 19	84 1630	6	194.00	140	17.5	715	39

WELL NO. 164 LOCAL NO. 04N02W25BAC1 SITE ID 345615091095201 ALLUVIAL AQUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
			(FT.	TEMPER-	DUCT-	SOLVED
		MEDIUM	ABOVE	ATURE	ANCE	(MG/L
DATE	TIME		NGVD)	(DEG C)	(µS/cm)	AS CL)
			(72000)	(00010)	(00095)	(00940)
JUL , 19	983					
28	1200	6	197.00	17.5	690	26

WELL NO. 165 LOCAL NO. 04N02W25BBB1 SITE ID 345623091100801 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	OF LAND SURFACE DATUM (FT. ABOVE	TEMPER- ATURE	SPE- CIFIC CON- DUCT- ANCE	CHLO- RIDE, DIS- SOLVED (MG/L	
DATE	TIME		NGVD) (72000)	(DEG C) (00010)	(µS/cm) (00095)	AS CL) (00940)	
JUL , 19	983						
28	1200	6	200.00	17.5	830	41	

WELL NO. 166 LOCAL NO. 04N02W26BBC1 SITE ID 345616091111101 OWNER - BUCK FILES NO. 1 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 1	982	6	201.00	17.5	590	55

WELL NO. 167 LOCAL NO. 04N02W26CCC1 SITE ID 345535091111001 OWNER - MILTON LAWSON ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH . (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUL , 19	52									
ll JUL		6	195.00	102	17.0	508	8.1	166	280	0
22		6	195.00	102	17.0	668	7.3	340	410	0
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
JUL , 19 11 JUL 22		DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	TOTAL RECOV- ERABLE (UG/L AS FE)

WELL NO. 168 LOCAL NO. 04N02W27ACB1 SITE ID 345612091114301 OWNER - BUCK FILES NO.4 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 1	982	6	200.00	17.5	710	42

WELL NO. 169 LOCAL NO. 04N02W27BDB1 SITE ID 345609091115501 OWNER - TOMMY SNELSON NO. 1 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUN , 197									
10 JUL , 197	1400 76	6	205.00	110	110	17.5	690	7.5	322
08 AUG		6	205.00	110		18.0	615	7.7	
02		6	205.00	110		18.0	620		
03 SEP		6	205.00	110			630		
09		6	205.00	110		17.5	630		
SEP , 198	32	,							
03		6 6	205.00 205.00	110 110		17.5	1020 920		
JUN , 198	33		203.00	110		17.5	920		
13	1045	6	205.00	110		17.0	1150		
AUG 03	0815	6	205.00	110		17.0	1210	7.2	370
03	0017	Ü	203.00	110		17.00	1210	, • 2	370
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
Jun , 197	75 1400	390	0	20	300	0	81	24	18
AUG , 198		,	_			<i>a</i> -			
03	0815	410	0	41	410	37	110	32	75

WELL NO. 169 LOCAL NO. 04N02W27BDB1 SITE ID 345609091115501 OWNER - TOMMY SNELSON NO. 1 ALLUVIAL AQUIFER - CONTINUED

	DATE	TIME	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
	JUN , 19 10 JUL , 19	1400		•5		16					
	08					14					
	AUG 02					15					
	SEP , 19	982				140					
	09			_		140					
	JUN , 19 13 AUG	983 1045				160					
	03	0815	29	2	2.1	180	1.1	<.10	•20	29	•
	DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	
	TIN 14	275									
	JUN , 19	1400			830						
	AUG , 19	98 3 0815	679	640	2600	580	•030	10	80	1.2	
		WELL	NO. 170	LOCAL NO		7CDD1 SIT	TE ID 3455	390911150	001 OWNER	- BUCK FI	LES NO. 1
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
FEB , 1 24	984 0 93 0	6	200.00	81.50	18.0	830	7.7	7.5	350	160	94
D	ATE T	S 50 (M IME AS	DIS- DI LVED SOL IG/L (M MG) AS	NA) SO	SC T CENT RA DIUM	AD- S PRP- I PION SC PTIO (MASS	SIUM, RI DIS- DI DLVED SO MG/L (M S K) AS	S- DI LVED SO G/L (N CL) AS	LFATE NO2 IS- I DLVED SO 4G/L (F	2+NO3 RI DIS- D DLVED SO MG/L (M S N) AS	UO- DE, IS- LVED G/L F) 950)
	B , 1984 4 09	930 2	8 4	6	22	l	2.0 9	0	29	•56	.20

WELL NO. 170 LOCAL NO. 04N02W27CDD1 SITE ID 345539091115001 OWNER - BUCK FILES NO. 1
ALLUVIAL AQUIFER - CONTINUED

FEB , 19	984 0930	28	510	440	690	540	•010	7	30	•58
DATE	TIME	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
			SOLIDS,	SOLIDS,						

WELL NO. 171 LOCAL NO. 04N02W27CDD2 SITE ID 345539091115002 OWNER - BUCK FILES NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)		SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
NOV, 198											
28	0930	6	200.00	137	41.00	17.5	1010	7.3	387	38	440
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIIM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV , 198	4										
28	0930	57	120	35	26	11	.6	1.9	130	5.1	<.10
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (NG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
NOV , 198	0930	•20	30	542	580	2100	380	.031	8	50	.76

WELL NO. 172 LOCAL NO. 04N02W27DCB1 SITE ID 345546091113901 OWNER - BUCK FILES NO. 5 ALLUVIAL AGUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
SEP , 198	32	,	202 00	17.0	ć 10						
09 AUG , 198	3	6	202.00	17.0	618						
03	0730	6	202.00	17.5	562	7.6	300	330	0	13	250
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
SEP , 198	12										
09 AUG , 198									50		
03	0730	0	67	19	24	17	•7	1.3	14	7.3	<.10
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 198	33										
03	0730	•20	32	327	330	1300	280	<.010	<4	20	.12

WELL NO. 173 LOCAL NO. 04N02W27DCC1 SITE ID 345535091113901 OWNER - CASE EQUIPMENT CO. ALLUVIAL AQUIFER

DATE TII	MEDIUM ME	ELEV. OF LAND SURFACE DATUM (FT. 1 ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
MAY , 1975	00 6	200 00	17.0	710	7./	20.0	270	•	
29 100 JUL . 1976	,u 6	200.00	17.0	710	7.4	302	370	0	23
08	6	200.00	18.0	695	7.4				
DATE TI	HARD- NESS (MG/I AS 4E GACO3 (00900	NONCAR- BONATE (MG/L 3) CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
MAY , 1975 29 100 JUL , 1976	00 32	20 17	83	27	24	•6	50	401	1200
08							58		

WELL NO. 174 LOCAL NO. 04NO2W28CCD1 SITE ID 345540091130801 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN , 19	75	4	196.00	85.00	85.0	18.0	1770	7.3	348	420	0
11 JuL		6	190.00	85.00	65.0	10.0	1770	7.3	346	420	U
25 JUL , 19		6	196.00	85.00			1580	7.7	249	300	0
08	, o	6	196.00	85.00							
08	1600	6	196.00	85.00							
AUG		,	106 00	05.00							
04		6	196.00	85.00							-
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JUN , 19	75										
11 JՄL		34	270	0	65	25	240	7	320	864	4100
25		9.6							33 0		
AUG , 19	76 								450		

WELL NO. 175 LOCAL NO. 04N02W28DCD1 SITE ID 345536091124201 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIPER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATHM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND-ARD UNITS) (00400)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
MAY , 19	75								
19		6	193.00	85.00				15	
20		6	193.00	85.00		1220	7.5	130	790
20	1030	6	193.00	85.00					790
29		6	193.00	85.00		1120		150	730
JUN									
05		6	193.00	85.00	17.0	1100		160	720
05	1245	6	193.00	85.00	17.0				720
JUL , 19	76								
06		6	193.00	85.00	17.5	1340	7.3	240	
AUG									
04		6	193.00	85.00		1460			
SEP									
09		6	193.00	85.00	17.5	1460		***	
JUL , 19	77	_							
19		6	193.00	85.00		1550		****	
AUG									
03		6	193.00	85.00		1410			

WELL NO. 176 LOCAL NO. 04N02W28DDB1 SITE ID 345547091122901 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SAM- PLING DEPTH (FEET) (00003)	TEMPER-ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN , 197	75									
05 JUL , 197	1000	6	193.00	85.0	17.5	2530	7 • 4	313	380	0
06 AUG		6	193.00		17.5	2870	7.4			
03 JUN , 198		6	193.00		17.5	3200	7.1			
13	1335	6	193.00		17.0	3180	***			
				HARD-		MAGNE-		SODIUM	CHLO-	
DATE	TIME	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JUN , 197	75	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CAC03) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO (00931)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (UG/L AS FE) (01046)
JUN , 197 05 JUL , 197	75 1000	DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	AD- SORP- TION RATIO	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (UG/L AS FE)
JUN , 197 05 JUL , 197 06	75 1000	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CAC03) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO (00931)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (UG/L AS FE) (01046)
JUN , 197 05 JUL , 197	75 1000 76 ——	DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CAC03) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO (00931)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (UG/L AS FE) (01046)

WELL NO. 177 LOCAL NO. 04N02W28DDD1 SITE ID 345535091122101 OWNER - WAYNE ROEDIGER ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
OCT , 19	949									
06 AUG , 19		6	192.00	130			358		154	190
24		6	192.00	130		17.0	528	7.5	277	340
MAY , 19	975	6	192.00	130	120	18.5	2740	7.2	310	380
29		6	192.00	130		10.5	2520			300
JUL 27	0930	6	192.00	130		17.0	3340	7.0		
27	0935	6	192.00	130		17.0	3150	7.0		
27	0945	6	192.00	130		17.0	3100	7.0		
27	1000	6	192.00	130		17.0	3000	7.0		
27	1030	6	192.00	130		17.0	2970	6.9		
27	1130	6	192.00	130		17.0	2940	7.0		
27 27	1330 1830	6 6	192.00 192.00	130 130		17.0 17.0	2880 2750	7.0 7.0		
28	0830	6	192.00	130		17.0	2680			
OCT		-								
16	0845	6	192.00	130		17.5	3720	6.9		
16	0930	6	192.00	130		17.5	3580	7.0		
16	1030	6	192.00	130		17.5	3410	7 - 1		
16	1130 1230	6	192.00 192.00	130		17.5 17.5	3270 3200	7 • 1		
16 16	1330	6 6	192.00	130 130		17.5	3150	7•1 7•1		
16	1430	6	192.00	130		17.5	3100	7.1		
JUL , 19		•	172.00	130		1, 13	3100	, •••		
06 AUG		6	192.00	130		17•5	2450	7.2		
03 SEP		6	192.00	130		17.5	2460	7.3		
09		6	192.00	130			2460	-		
AUG , 19		6	192.00	130			3180			
SEP , 19		6	192.00	130		17.5	3450			
JUN , 19	983 1335	6	192.00	130		17.0	3180			
AUG		_								
03	0900	6	192.00	130		17.5	2920	7.1	430	460
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)
OCT , 19		12		130	0					
AUG , 19		0	17	260	0	63	24			
MAY , 19		0	38	480	180	120	45	290		6
AUG , 19	983 0 90 0	0	58	460	27	130	32	410	66	9

WELL NO. 177 LOCAL NO. 04N02W28DDD1 SITE ID 345535091122101 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIFER - CONTINUED

DATE	TIME	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT , 19	49								
06 AUG , 19	53		22	3.0	.63				
24 MAY , 19			19	4.0	.29				
20	, ,		650						2350
29			630						4330
OCT	2215								
16	0845		830						
16 16	0930 1030		780 740						
16	1130		740						
16	1230		680						
16	1330		660						
16	1430		650						
JUL , 19									
06 AUG			650						
03			570						
SEP , 198	82		800						
JUN , 19	83		000						
13	1335		790						
AUG	2000		700						
03	0900	6.9	700	3.8		<.10	•20	28	1610
DATE	TIME	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
		(,,,,,,,,	(010.0)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(2555)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(02200)	(01020)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
OCT , 19	49			E 5 0					
06 AUG , 19	53			550					
24				20	_				
MAY , 19 20			<10						
AUG , 19	83 0 9 00	1500	2500		450	•200	10	1200	3.8

WELL NO. 178 LOCAL NO. 04N02W28DDD2 SITE ID 345535091122102 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIFER

r	ATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAM- PLING DEPTH (FEET) (00003)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
MA	Y , 19	75										
	0		6	191.00	85.00	85.0	18.0	1280	7.8	325	400	0
	9		6	191.00	85.00			1250				
JU												
2	7	0931	6	191.00	85.00		17.0	855	7.2			
2	7	0935	6	191.00	85.00		17.0	852	7.2			
2	7	0945	6	191.00	85.00		17.0	935	7.2			
	7	1000	6	191.00	85.00		17.0	1100	7.1			
	7	1030	6	191.00	85.00		17.0	1080	7.1			
	7	1130	6	191.00	85.00		17.0	1080	7.1			
	7	1330	6	191.00	85.00		17.5	1110	7.2			
	7	1830	6	191.00	85.00		17.5	1170	7.1			
	8	0830	6	191.00	85.00		17.0	1250				
00		0000	•	191.00	0,00		17.0	1230				
	6	1330	6	191.00	85.00		17.5	1040	7.3			
	6	1430	6	191.00	85.00		17.5	1010	7.4			
	L , 19		•	171400	034.117		17.03	1010	, • -			
	6		6	191.00	85.00		17.5	1150	7.1			
ΑÜ			v	1,1100	03.00		1, 03	1130	, • •			
	3		6	191.00	85.00		17.5	1120	7.1			
	P , 19	82	· ·	-,	0,000		2, 20	-120				
	3		6	191.00	85.00		18.0	1580				
	N , 19	83	ŭ	1,11,0	03.00		10.0	2300				
	3	1330	6	191.00	85.00		17.0	1800				
		1200	· ·	1,1100	33200		2, 40	2000				
			CARBON DIOXIDE	HARD-	HARD- NESS,	CALCIUM	MAGNE- SIUM,	SODIUM,	SODIUM AD-	CHLO- RIDE,	SOLIDS, RESIDUE AT 180	IRON,
ū	ATE	TIME	SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SORP- TION RATIO (00931)	SOLVED (MG/L AS CL) (00940)	DEG. C DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
			SOLVED (MG/L AS CO2)	(MG/L AS CACO3)	BONATE (MG/L CACO3)	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	SOLVED (MG/L AS NA)	TION RATIO	SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L)	SOLVED (UG/L AS FE)
MA	Y , 19		SOLVED (MG/L AS CO2)	(MG/L AS CACO3)	BONATE (MG/L CACO3)	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	SOLVED (MG/L AS NA)	TION RATIO	SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L)	SOLVED (UG/L AS FE)
MA 2 00	Y , 19		SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1	Y, 191 0	75 —	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1 1 1 JU	Y , 197 0 T 6 6	75 1330 1430	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190 72 94	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1 1 1 JU	Y , 197 0 T 6 6 L , 197	1330 1430 76	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 0 C 1 1 JU 0 SE	Y , 19: 0 T 6 6 (L , 19:	1330 1430 76	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190 72 94	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 0 C 1 1 1 5 C SE	X , 19: 0 6 6 (L , 19: 6 2P , 19:	1330 1430 76 ——32	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190 72 94	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1 1 1 0 SE 0 JU	Y , 193 0 T 6 6 IL , 193 I6 IP , 198 I3	1330 1430 76 ———————————————————————————————————	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190 72 94 170 280	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1 1 1 0 SE 0 JU	X , 19: 0 6 6 (L , 19: 6 2P , 19:	1330 1430 76 ——32	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902)	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS NA) (00930)	TION RATIO (00931)	SOLVED (MG/L AS CL) (00940) 190 72 94	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046)
MA 2 00 1 1 1 0 SE 0 JU	Y , 193 0 T 6 6 IL , 193 I6 IP , 198 I3	1330 1430 76 ———————————————————————————————————	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900)	BONATE (MG/L CACO3) (00902) 130 LOCAL NO	SOLVED (MG/L AS CA) (00915) 120	SOLVED (MG/L AS MG) (00925) 38 	SOLVED (MG/L AS NA) (00930) 81	TION RATIO (00931) 2	SOLVED (MG/L) AS CL) (00940) 190 72 94 170 280 330	DIS- SOLVED (MG/L) (70300)	SOLVED (UG/L AS FE) (01046) 2700
MA 2 000 1 1 1 1 1 2 5 8 6 0 5 1 1 1	Y , 193 0 T 6 6 IL , 193 I6 IP , 198 I3	1330 1430 76 ———————————————————————————————————	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900) 460 NO. 179 ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	BONATE (MG/L CACO3) (00902) 130 LOCAL NO ALLUVIAL DEPTH OF WELL, TOTAL (FEET)	SOLVED (MG/L AS CA) (00915) 120	SOLVED (MG/L AS MG) (00925) 38 8DDD3 SIT SPE- GIFIC CON- DUCT- ANCE (µS/cm)	SOLVED (MG/L AS NA) (00930) 81	TION RATIO (00931) 2 350911221 BICAR-BONATE FET-FLD (MG/L AS HCO3)	SOLVED (MG/L AS CL) (00940) 190 72 94 170 280 330 03 OWNER CAR- BONATE FET-FLD (MG/L AS CO3)	DIS- SOLVED (MG/L) (70300) 659 WAYNE R CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SOLVED (UG/L AS FE) (01046) 2700 OEDIGER HARD-NESS (MG/L AS GACO3)
MA 2 000 1 1 1 1 1 2 5 8 6 0 5 1 1 1	Y , 19:00 TT 6 (L , 19:16 P , 19:33	1330 1430 76 — 32 — 33 1330	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900) 460 NO. 179 ELEV. OF LAND SURFACE DATUM (FT. ABOVE	BONATE (MG/L CACO3) (00902) 130 LOCAL NO ALLUVIAL DEPTH OF WELL, TOTAL	SOLVED (MG/L AS CA) (00915) 120 04N02W2 AQUIFER TEMPER-ATURE	SOLVED (MG/L AS MG) (00925) 38 8DDD3 SIT SPE- CIFIC CON- DUCT- ANCE	SOLVED (MG/L AS NA) (00930) 81	TION RATIO (00931) 2 350911221 BICAR- BONATE FET-FLD (MG/L AS	SOLVED (MG/L AS CL) (00940) 190 72 94 170 280 330 03 OWNER	DIS- SOLVED (MG/L) (70300) 659 WAYNE R CARBON DIOXIDE DIS- SOLVED (MG/L)	SOLVED (UG/L AS FE) (01046) 2700 OEDIGER HARD- NESS (MG/L AS
MAA 2 2 000 1 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	Y , 19: 00 T 6 6 P , 19: 3 N , 19: 3	1330 1430 76 — 32 — 33 1330	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900) 460 NO. 179 ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	BONATE (MG/L CACO3) (00902) 130 LOCAL NO ALLUVIAL DEPTH OF WELL, TOTAL (FEET)	SOLVED (MG/L AS CA) (00915) 120	SOLVED (MG/L AS MG) (00925) 38 8DDD3 SIT SPE- GIFIC CON- DUCT- ANCE (µS/cm)	SOLVED (MG/L AS NA) (00930) 81	TION RATIO (00931) 2 350911221 BICAR-BONATE FET-FLD (MG/L AS HCO3)	SOLVED (MG/L AS CL) (00940) 190 72 94 170 280 330 03 OWNER CAR- BONATE FET-FLD (MG/L AS CO3)	DIS- SOLVED (MG/L) (70300) 659 WAYNE R CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SOLVED (UG/L AS FE) (01046) 2700 OEDIGER HARD-NESS (MG/L AS GACO3)
MAA 2 2 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y , 19:00 TT 6 (L , 19:16 P , 19:33	1330 1430 76 — 32 — 33 1330	SOLVED (MG/L AS CO2) (00405)	(MG/L AS CACO3) (00900) 460 NO. 179 ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	BONATE (MG/L CACO3) (00902) 130 LOCAL NO ALLUVIAL DEPTH OF WELL, TOTAL (FEET)	SOLVED (MG/L AS CA) (00915) 120	SOLVED (MG/L AS MG) (00925) 38 8DDD3 SIT SPE- GIFIC CON- DUCT- ANCE (µS/cm)	SOLVED (MG/L AS NA) (00930) 81	TION RATIO (00931) 2 350911221 BICAR-BONATE FET-FLD (MG/L AS HCO3)	SOLVED (MG/L AS CL) (00940) 190 72 94 170 280 330 03 OWNER CAR- BONATE FET-FLD (MG/L AS CO3)	DIS- SOLVED (MG/L) (70300) 659 WAYNE R CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SOLVED (UG/L AS FE) (01046) 2700 OEDIGER HARD-NESS (MG/L AS GACO3)

WELL NO. 179 LOCAL NO. 04NO2W28DDD3 SITE ID 345535091122103 OWNER - WAYNE ROEDIGER ALLUVIAL AQUIFER - CONTINUED

				ALLUVIAL	AQUIFER	- CONTINU	ED				
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB , 198	84 1645	320	130	33	550	72	12	7.6	960	•2	.10
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
FEB , 198	84 1645	•20	26	1980	1800	2600	400	.200	20	1900	7.2
			NO. 180	LOCAL NO	. 04N02W2 AQUIFER						RAW
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT- ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
AUG , 19	74	6			255	18.0	27 50	7.4	3	381	470
07 JUL , 19		6	193.00	 128	255	18.0	2750 1680	7.4 7.7	3	381 390	470 480
07 JUL , 19			 193.00 193.00	128 128	255 	18.0 18.0			3 		
07 JUL , 19 01 OCT	75 —	6			HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)		1680	7.7	PERCENT SODIUM (00932)	390	480
07 JUL , 19 01 OCT 01 DATE AUG , 19 07	75 — 0930 TIME	6 CAR- BONATE FET-FLD (MG/L AS CO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	1680 2780 MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	7.7 7.6 SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	390 330 SODIUM AD- SORP- TION RATIO	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K)
07 JUL , 19 01 OCT 01 DATE AUG , 19 07 JUL , 19 01	75 — 0930 TIME	6 CAR- BONATE FET-FLD (MG/L AS C03) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	7.7 7.6 SODIMM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SOLIUM (00932)	390 330 SODIUM AD- SORP- TION RATIO (00931)	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
07 JUL , 19 01 OCT 01 DATE AUG , 19 07 JUL , 19	75 — 0930 TIME	6 6 CAR- BONATE FET-FLD (MG/L AS C03) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	7.7 7.6 SODIMM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SOLIUM (00932)	390 330 SODIUM AD- SORP- TION RATIO (00931)	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
07 JUL , 19 01 0CT 01 DATE AUG , 19 07 JUL , 19 01 0CT	75 — 0930 TIME 74 — 75 —	6 6 CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	193.00 CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	7.7 7.6 SODIMM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SOLIUM (00932)	390 330 SODIUM AD- SORP- TION RATIO (00931)	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
07 JUL, 19 01 OCT 01 DATE AUG, 19 07 JUL, 19 01 OCT 01	75 — 0930 TIME 74 — 75 — 0930	CAR-BONATE FET-FLD (MG/L AS C03) (00445) CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	193.00 CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405) 29 15 16 SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	HARD- NESS (MG/L AS CACO3) (00900) 130 NITRO- GEN, N02+N03 DIS- SOLVED (MG/L AS N) (00631)	HARD-NESS, NONCAR-RONATE (MG/L CACO3) (00902) O PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915) 35 FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	1680 2780 MAGNE— SIUM, DIS— SOLVED (MG/L AS MG) (00925) 9.3 ——— SILICA, DIS— SOLVED (MG/L AS SIO2) (00955)	7.7 7.6 SODIUM, DIS- SOLVED (MG/L AS NA) (00930) 530 SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	PERCENT SONIUM (00932) 90 SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	390 330 SODIUM AD- SORP- TION RATIO (00931) 21 IRON, DIS- SOLVED (UG/L AS FR) (01046)	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 7.3 MANGA- NESE, DIS- SOLVED (IIG/L AS MN) (01056)
07 JUL , 19 01 DATE AUG , 19 07 JUL , 19 01 OCT 01 DATE	75 — 0930 TIME 74 — 0930 TIME	CAR-BONATE FET-FLD (MG/L AS CO3) (00445) CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405) 29 15 16 SULFATE DIS- SOLVED (MG/L AS SO4)	HARD- NESS (MG/L AS CACO3) (00900) 130 NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902) O PHOS-PHORUS, TOTAL (MG/L AS P)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915) 35 FLUO- RIDE, DIS- SOLVED (MG/L AS F)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) 9.3 SILICA, DIS-SOLVED (MG/L AS MG) (00925)	7.7 7.6 SODIUM, DIS- SOLVED (MG/L AS NA) (00930) 530 SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PERCENT SODIUM (00932) 90 SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	390 330 SODIUM AD- SORP- TION RATIO (00931) 21 IRON, DIS- SOLVED (UG/L AS FE)	480 400 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 7.3 MANGA- NESE, DIS- SOLVED (IG/L AS MN)

WELL NO. 181 LOCAL NO. 04N02W30ACA1 SITE ID 345609091144701 ALLUVIAL AOUIFER

			ELEV.			
			OF LAND		SPE-	CHLO-
			SURFACE		CIFIC	RIDE,
			DATUM		CON-	DIS-
			(FT.	TEMPER-	DUCT-	SOLVED
		MEDIUM	ABOVE	ATURE	ANCE	(MG/L
DATE	TIME		NGVD)	(DEG C)	(µS/cm)	AS CL)
			(72000)	(00010)	(00095)	(00940)
JUL , 19	983					
29	1200	6	184.00	17.0	160	4.5

WELL NO. 182 LOCAL NO. 04N02W30BAC2 SITE ID 345618091150902 OWNER - CITY OF BRINKLEY NO. 10 ALLUVIAL AQUIFER

DATE	Т	IME		MEDIUM	ELEV. OF LANI SURFACE DATUM (FT. ABOVE NGVD) (72000)	E DEP OF WEL TOT (FF	L, AL ET)	TEMPER- ATURE (DEG C (00010	AN() (µS/	IC I- IT- IE (cm)	PH (STA AR UNIT (004	ND- D S)	ALKA LINIT FIEL (MG/ AS CACO	ry LD /L O3)	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)
SEP ,	1983														
07		930		6	180.00	140		17.	D	202		6.6		85	100
DATE	Т	'IME		CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDN DIS- SOLVEN (MG/L AS CO2) (00405)	E HAR NES O (MG AS	S /L : :03)	HARD- NESS, NONCAR- BONATE (MG/L CACO3 (00902	SOI (MC) AS	S- VED S/L CA)	SI DI	MG)	SODIU DIS- SOLVI (MG/ AS N	ED /L NA)	PERCENT SODIUM (00932)
SEP .	1983												•		
07		930		0	40		68		0 17	,	6	• l	6	.0	16
DATE	т	'I ME		SODIUM AD- SORP- TION RATIO	POTAS- SIUM DIS- SOLVEI (MG/L AS K) (00935)	RID DIS D SOL (MC AS	E, S- VED S/L CL)	SULFAT DIS- SOLVE (MG/L AS SO4 (00945	GE NO24 D1 D SOI (MC	S- VED S/L N)	FLU RID DI SOL (MG AS	E, S- VED /L F)	SILIC DIS- SOLV (MG, AS SIO (009)	VED /L 2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
SEP ,	1983														
07		930		•3	1.4	4	• 3	15	•	.10		•10	38	3	136
	DATE		TIME	SUM CON TUE D SO (M	NTS, IS- LVED G/L)	IRON, DIS- SOLVED (UG/L AS FE) 01046)	NE SO (TI AS	DIS- DLVED IG/L S MN)	ODIDE, DIS- SOLVED (MG/L AS I) 71865)	SC (1) AS	CHIUM DIS- DLVED UG/L G LI)	SC (T) AS	PRON, DIS- DLVED IG/L S B)	SO (M AS	MIDE DIS- DIVED G/L BR) 870)
	SEP ,				140	4600		520	004		11.		Z20		04
	07		0930		140	4600		520	•004		<4		<20		•04

WELL NO. 183 LOCAL NO. 04N02W30BDA1 SITE ID 345612091150001 OWNER - JAMES C. TRICE ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , 19	61									
14		6	185.00	100	650	17.0	165	7.4	5	69
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
JUL , 19 14	61	84	0	5.3	66	0	16	6.3	5.6	15
DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUL , 19	61									
14		.3	1.2	2.0	7.6	.16	127	86	5400	550

WELL NO. 184 LOCAL NO. 04N02W32ADA1 SITE ID 345519091132901 OWNER - LLOYD BREWER NO. 1 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (us/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19	982	6	193.00	140	18.0	2200	580

WELL NO. 185 LOCAL NO. 04N02W32DAD1 SITE ID 345502091062401 OWNER - LLOYD BREWER NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19	82	6	192.00	18.0	1840	160
JUN , 19	1230	6	192.00		1470	220

WELL NO. 186 LOCAL NO. 04N02W33ADC1 SITE ID 345509091122801 OWNER - BUDDY FITTS NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
AUG , 197	7										
03 JUN , 198	1030 33	6	192.00	18.0	700		_	-			290
13 AUG	1530	6	192.00	17.0	730	_			-		_
03	1030	6	192.00	17.5	720	7.3	360	400	0	32	310
DATE	TIME	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
AUG , 197	77 10 30		79	22	27		•7		26		
JUN , 198	33		,,	22	2,		• ′				
13 AUG	1530		-		_	_	_		34		
03	1030	0	85	24	31	18	•8	1.6	38	5.2	.65
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
AUG , 197				270							
03 AUG , 198				379							
03	1030	•20	34	407	420	2000	360	•010	7	80	•25

WELL NO. 187 LOCAL NO. 04NO2W33DDC1 SITE ID 345446091123101 OWNER - BUDDY FITTS NO. 1 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUN , 19	983 1515	6	190.00	17.0	770	47

WELL NO. 188 LOCAL NO. 04NO2W34ACD1 SITE ID 345510091113701

		WELL NO.	100	ALLUVIAL	AQUIFER	J-Robi S	115 10	54551	,1115,	·/•		
DATE	TIME	MED	IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND ARD UNITS) (00400	LINI FII - (MC AL CAC	ELD G/L S CO3)	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	
JUN , 197 26	75 1015		6	205.00	692	7.	4	322	390	n	25	
		WELL NO.	189	LOCAL NO		34ACD2 S	ITE ID	34551	00911137	02		
DATE	TIME	MED	IUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND ARD UNITS) (00400	LIN FII - (MC A: CA	ELD G/L S CO3)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	
JUN , 197 23 26	75 1015 1015		6 6	205.00 205.00	702 702	7 . -	6	328	400 —	0	16	
		WELL NO.	190		• 04NO2W	34BAA1 S	ITE ID	34553	10911152	01 OWNER	- WAYNE KI	ELLER
		DATE	TIME	MED	OF SUI DA IUM AJ	ATUM (FT. BOVE GVD)	DEPTH OF WELL, TOTAL (FEET) 72008)	SPE CIF CON DUC ANC (µS/ (000	IC RI - DI T- SC E (M cm) AS	ILO- IDE, IS- ILVED IG/L ICL) IS-		
	;	FEB , 198	4 1730		6 19	93.00	47.00	1	060 15	0		
		WELL NO.	191		. 04NO2W	34CDB1 S	ITE ID	34545	10 9 11201	O1 OWNER	- BILL HE	NARD
		DATE	TIME	MED	OF SUI DA IUM AI NO	BOVE GVD) (EMPER- ATURE DEG C) 00010)	SPE CIF CON DUC ANC (\u03/C	IC RI - DI T- SC E (M cm) AS	ILO- DE, S- DLVED IG/L S CL) 1940)		

SEP , 1982 10... -- 6 206.00 17.0 700 20 JUN , 1983 13... 1500 6 206.00 17.0 745 32

WELL NO. 192 LOCAL NO. 04NO2W35ABB1 SITE ID 345530091103701 OWNER - JOHNNY BELCHER, JR. ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 19		6	192.00	17.0	665	55
JUN , 19 13	1145	6	192.00	17.0	820	34

WELL NO. 193 LOCAL NO. 04NO2W35BBB1 SITE ID 345531091111301 OWNER - KIRK FILES NO. 2 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP , 1	982	6	195.00	17.0	560	42

WELL NO. 194 LOCAL NO. 04N02W35CBC1 SITE ID 345456091111501 OWNER - GEORGE GIBBS ALLUVIAL AQUIFER

			ELEV. OF LAND SURFACE DATUM (FT.	DEPTH OF WELL,	TEMPER-	SPE- CIFIC CON- DUCT-	PH (STAND-	BICAR- BONATE FET-FLD (MG/L	CAR- BONATE FET-FLD
DATE	TIME	MEDIUM	ABOVE NGVD) (72000)	TOTAL (FEET) (72008)	ATURE (DEG C) (00010)	ANCE (µS/cm) (00095)	ARD UNITS) (00400)	AS HCO3) (00440)	(MG/L AS CO3) (00445)
JUL , 19	52								
11		6	196.00	122	17.0	442	8.4	240	12
09		6	196.00	122	17.0	658	7.4	410	0
AUG		_							_
24 • • •		6	196.00	122	17.0	655	7.3	410	0
		CARBON		HARD-		MAGNE-	CHLO-		IRON.
		CARBON DIOXIDE	HARD-	HARD- NESS,	CALCIUM	MAGNE- SIUM,	CHLO-	SULFATE	IRON, TOTAL
		DIOXIDE DIS-	NESS	NESS, NONCAR-	DIS-	SIUM, DIS-	RIDE, DIS-	DIS-	TOTAL RECOV-
		DIOXIDE DIS- SOLVED	NESS (MG/L	NESS, NONCAR- BONATE	DIS- SOLVED	SIUM, DIS- SOLVED	RIDE, DIS- SOLVED	DIS- SOLVED	TOTAL RECOV- ERABLE
		DIOXIDE DIS- SOLVED (MG/L	NESS (MG/L AS	NESS, NONCAR- BONATE (MG/L	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	TOTAL RECOV- ERABLF (IIG/L
DATE	TIME	DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	TOTAL RECOV- ERABLF (UG/L AS FE)
DATE	TIME	DIOXIDE DIS- SOLVED (MG/L	NESS (MG/L AS	NESS, NONCAR- BONATE (MG/L	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	TOTAL RECOV- ERABLF (IIG/L
		DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	TOTAL RECOV- ERABLF (UG/L AS FE)
JUL , 19		DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CACO3) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	TOTAL RECOV- ERABLF (IIG/L AS FE) (01045)
		DIOXIDE DIS- SOLVED (MG/L AS CO2)	NESS (MG/L AS CACO3)	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	TOTAL RECOV- ERABLF (UG/L AS FE)
JUL , 19		DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	NESS (MG/L AS CAC03) (00900)	NESS, NONCAR- BONATE (MG/L CACO3) (00902)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	TOTAL RECOV- ERABLF (IIG/L AS FE) (01045)

WELL NO. 195 LOCAL NO. 04N02W36ABD1 SITE ID 345518091092301 OWNER - JOHNNY BELCHER, JR. ALLUVIAL AQUIFER

	DATE	ME TIME	O. S	ELEV. F LAND URFACE DATUM (FT. ABOVE NGVD) 72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
	JUN , 1983 13	1225	6	193.00	17.0	815	36		
	WELL NO.		O. O4NO2		SITE ID	345459091	091701 OW	NER - DOD	SON JONES
DATE TIME	FLC MEDIUM RA' (GP) (000:	TE ATURE M) (DEG C)	ANCE (µS/cm	PH (STAN ARI (UNITS	ID- INU COB () UNI	AT- FIE M- (MG ALT AS TS) CAC	TY BONA LD FET-1 /L (MGA AS 03) HC00	ATE CA FLD BON /L FET- (MG 3) AS C	FLD SOLVED /L (MG/L 03) AS CO2)
JUL , 1974 23 0815	6 1040	17.0	83	4 7	'• 1	3	390	480	0 60
DATE TIME	HARD- NESS (MG/L AS CACO3) (00900)	NONCAR- DEBONATE S (MG/L (CACO3) A	LCIUM DIS- GOLVED MG/L LS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) 00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 1974 23 0815			.00	33	25	12	.6	1.8	39
DATE TIME	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	DIS- PH SOLVED T (MG/L (AS N) A	PHOS- HORUS, POTAL MG/L AS P)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUL , 1974 23 0815	10	•36	•400	•20	34	473	480	2700	1000
	WELL NO.		IO. 04NO3 L AQUIFE		SITE ID	345742091	153 2 01		
	DATE	ME Time	o S	ELEV. F LAND URFACE DATUM (FT. ABOVE NGVD) 72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
	AUG , 1983	1225		192.00	17.0	125	7.2		

WELL NO. 198 LOCAL NO. 04N03W25AAA1 SITE ID 345627001153401 OWNER - CARTER CO. ALLUVIAL AOUIFER

		ALLUVIAL AOUII	FER					
•				•				
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (\ps/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
100	,							
AUG , 1983		6	186.00	17.0	190	7.5		
10111								
WELL NO.	199	LOCAL NO. 04NO ALLUVIAL AOUI		SITE ID	345533091	160201 OWN	ER - CARTER	co.
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
AUG , 198								
12	1405	6	182.00	17.0	200	8.2		
WELL NO.	200	LOCAL NO. 04NO		SITE ID	345533091	161901		
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		
JUL , 1983		,	100 00		200	, ,		
29 • • •	1200	6	180.00	17.0	220	4.9		
WELL NO.	201	LOCAL NO. 04NO ALLUVIAL AQUI		SITE ID	345526091	162101 OWN	ER - CARTER	co.
DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)		

AUG , 1983 12... 1405 6 180.00 17.0 285 8.4

WELL NO. 202 LOCAL NO. 05N02W34ACA1 SITE ID 350050091113101 ALLUVIAL AOUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JUL , 19	1200	6	197.00	18.0	450	9.0

WELL NO. 203 LOCAL NO. 05N02W35ABC1 SITE ID 350050091104201 ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (µS/cm)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
			(72000)	(00010)	(00095)	(00940)
JUL , 19	83					
29	1200	6	195.00	17.5	410	6.7

WELL NO. 204 LOCAL NO. 05N03W34DBA1 SITE ID 350046091175401 OWNER - R. OVERHOLT ALLUVIAL AQUIFER

			ELEV. OF LAND SURFACE DATUM (FT.	DEPTH OF WELL,	SPE- CIFIC CON- DUCT-	PH (STAND-	HARD- NESS (MG/L	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	SODIUM AD- SORP- TION
DATE	TIME	MEDIUM	ABOVE NGVD) (72000)	TOTAL (FEET) (72008)	ANCE (µS/cm) (00095)	ARD UNITS) (00400)	AS CACO3) (00900)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS NA) (00930)	(00931)
JUL , 22	1955	6	192.00	86.00	137	6.8	61	15	5.7	5.5	.3

WELL NO. 205 LOCAL NO. 05N03W34DDC1 SITE ID 350022091175101 OWNER - COOPER'S FLYING SERVICE ALLUVIAL AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (GPM) (00058)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)
JUL , 19	61	6	190.00	67.00	75	16.0	348	7.6	3	108
DATE	TIME	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SOBIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
JUL , 19	61	130	0	5.3	110	5	27	11	13	20

WELL NO. 205 LOCAL NO. 05N03W34DDC1 SITE ID 350022091175101 OWNER - COOPER'S FLYING SERVICE ALLUVIAL AQUIFER - CONTINUED

DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
JUL , 196	1	.5	2.8	3.5	17	12	247	220	0	10	
		WELL NO.		L NO. 03N FIELD AQU		SITE ID	345315091	114502 OW	NER - CIT	Y OF BRINKLEY	
			ELEV. OF LAND			SPE-			ALKA-	BICAR-	

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
AUG , 19	52									
13		6	207.00	250	18.0	799	8.1		235	290
09 09		6 6	207.00 207.00	250 250	18.0	1040 1030	7.5 7.4	5	410 397	500 480
V 7 • • •		U	207.00	230	10.0	1030	/ • 	,	391	400
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)
AUG , 19	52									
13		0	3.6	330	93					
09		0	25 31	440	30	120	32 31			1
09		Ü	31	440	43	130	31	58	22	1
DATE	TIME	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUN- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
AUG , 19	52									
13			98	34	.68					4100
09			94	40	.50					3600
09		5.2	82	44	.32	.30	18	617	600	2700

WELL NO. 207 LOCAL NO. 03N02W10DBC4 SITE ID 345314091114701 OWNER - CITY OF BRINKLEY NO. 4 COCKFIELD AOUIFER

DATE	TIME	MEDIUM	ELEV. DF LAND GURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPT OF WELL TOTA (FER (7200	CON L, DUC AL ANC ET) (µS/	PIC I- CT- (S CE (cm) UN	PH TAND- ARD (ITS) 0400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
OCT , 194	.9									
06		6	205.00	238		957		404	490	0
24		6	205.00	238		761	8.2	282	340	0
FEB 04		6	205.00	238		842	8.1	327	400	0
DAT		CARI DIOX: DI: SOL/ (MG, AS CO	IDE HA 5- NE VED (M 7L A D2) CA	RD- SS G/L S C03)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CHLO- RIDE, DIS- SOLVE (MG/L AS CL	SULF DIS D SOL (MG	GATE NIT G- D LVED SO G/L (M GO4) AS	RATE TO IS- RE LVED ER G/L (U N) AS	CON, OTAL CCOV- CABLE IG/L FE) O45)
	, 1949			210	_				10	670
06.		-		310	.0	68		22	.18	670
24. FEB		-	3.4	300	15	68	4	.4	•66	3500
04.		- !	5.0	340	17	70	3	30	.68	6300

WELL NO. 208 LOCAL NO. 01N03W22BAC1 SITE ID 344127091184401 OWNER - CITY OF CLARENDON SPARTA AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
JUL , 19	46 	6	170.00	678	676	7.5	260	0	13
DATE JUL , 19	TIME 46	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
17		67	0	18	5.4	120	79	7	4.8
DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	ALUM-INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
JUL , 19	46	89	1.5	.00	11	379	380	1200	600

WELL NO. 209 LOCAL NO. 01N03W22BAC2 SITE ID 344126091184301 OWNER - CITY OF CLARENDON SPARTA AGUIFER

DATE T	IME	MEDIUM	ELEV. OF LANI SURFACE DATUM (FT. ABOVE NGVD) (72000	E DEPT OF WELI TOTA (FEI	L, TEMPI AL ATUI ET) (DEG	RE ANCI	IC - PE T- (STA E AF cm) UNI	AND- INU RD COB TS) UNI	AT- FIE M- (MG ALT AS TS) CAC	TY BON LD FET- /L (MG AS (03) HCO	ATE CAR- FLD BONAT /L FET-FL (MG/L 3) AS CO3	E n)
07		0	170.00	0 687		 .						
09 09		0 6			- 20!	0.5 67	- - 7 7.	.5 5	21	2 2	60 0	
DATE	TIME	DIO D SO (M AS	LVED G/L CO2)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	
DEC , 1949		1		67	0	21	3.5	120	77	7	8.9	
DATE	TIME	RI DI SO (M AS	S- LVED G/L CL) A	ULFATE DIS- SOLVED (MG/L S SO4)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	
DEC , 07 09	1949		 86	 5•0	<u>-</u> .18	<u></u> .40	4.3	 389	380	=	500 770	
		WELL	NO. 210		L NO. O3NO		SITE ID	345315091	114501 OW	NER - CIT	Y OF BRINKL	EY NO. 5
DATE	TIME	MED	OI Si IUM .	ELEV. F LAND URFACE DATUM (FT. ABOVE NGVD) 72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	
OCT , 06 24	1949 			205.00 205.00	390 390	18.0	1410 2930	7.4	404 399	490 490	0 0	

MAGNE-

SIUM, DIS-

SOLVED

(MG/L

AS MG)

(00925)

16

SODIUM,

DIS-SOLVED

(MG/L

AS NA)

(00930)

660

PERCENT

SODIUM

(00932)

87

SODIUM

AD-SORP-

TION

RATIO

(00931)

21

POTAS-

SIUM, DIS-

SOLVED (MG/L

AS K)

(00935)

10

CARBON

HARD-

NESS

(MG/L

CACO3)

(00900)

250

200

AS

DIOXIDE

DIS-

SOLVED

(MG/L

AS CO2)

(00405)

31

DATE

OCT , 1949 06... 24...

TIME

HARD-

NESS, NONCAR-

BONATE

(MG/L

CACO3)

(00902)

0

CALCIUM

SOLVED

(MG/L

AS CA)

(00915)

52

DIS-

WELL NO. 210 LOCAL NO. 03N02W10DBB1 SITE ID 345315091114501 OWNER - CITY OF BRINKLEY NO. 5 SPARTA AQUIFER - CONTINUED

DATE	TIME	DIS- SOLVED (MG/L AS CL) A	ULFATE N DIS- SOLVED (MG/L S SO4)	ITRATE POIS- SOLVED S (MG/L (AS N)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) 00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDITE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- THENTS, DIS- SOLVED (MG/L) (70301)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)
OCT , 1949 06 24	-	220 850	8.0 7.4	.18 .32	.10	 15	 1810	1900	17000 290	700
		WELL NO. 21		NO. 03NO2V AQUIFER	v10DBC3	SITE ID	34531309	1114601 OW	NER - CIT	Y OF BRINKLEY NO. 3
DATE	TIME	MEDIUM (EMPER- ATURE DEG C) (ANCE µS/cm) U!	PH STAND- ARD NITS) 00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)
MAR , 1950	-	6	19.0	1840	7.5	377	460	0	23	130
DATE	TIME	HARD- NESS, NONCAR BONATE (MG/L CACO3 (00902	CALCIU - DIS- SOLVE (MG/L) AS CA	DIS- D SOLVEI (MG/L) AS MG	DIS- DIS- DIS- O SOLVI (MG,	- ED /L PERO NA) SOD	SO T ENT RA IUM	AD- SI RP- DI	K) AS	E, - VED /L CL)
MAR , 08	1950		0 35	10	400		86	16 5	5.0 410	•
DATE	TIME	SULFAT DIS- SOLVE (MG/L AS SO4 (00945	DIS- D SOLVE (MG/L) AS N)	FLUO- E RIDE, DIS- D SOLVEI (MG/L AS F)	AS SIO	- AT 1 /ED DEG /L DI SOL 2) (MG	DUE SUM 80 CON • C TUE S- D VED SO /L) (M	IS- ERA LVED (UG	CAL INU COV- DI ABLE SOL C/L (UG FE) AS	M, S- VED /L AL)

1090

1100

0

11 .20 .30 15

MAR , 1950 —

WELL NO. 212 LOCAL NO. 03N02W12CBC1 SITE ID 345313091101401 OWNER - USGS SPARTA AOUIFER

DATE	TIME		MEDIUM	OF SUR DA' (AB	EV. LAND FACE TUM FT. OVE VD)	OI WEI TOT	CL,	TEMI ATU (DEC (OOC	JRE G C)	CI CO DII AN	PE- IFIC ON- ICT- ICE I/cm)	(ST A UNI	H AND- RD TS) 400)	(P IN CO UN	LOR LAT- UM- BALT (ITS)	LIN FI (M A CA	ELD G/L		/L 3)
MAR , 196																			
15	0824		6		6.00	420			19.0		1810		7.7		7				420
15	1210		6		6.00	420			19.0		1820								
15 15	1700 2150		6 6		6.00 6.00	420 420			19.0 19.0		1920 1950								
16	2130		6	10		721	' 		19.0		2040		7.3		17		354		430
16	0600		6	18	6.00	420)		19.0		2010								
OCT , 198	2																		
13			6	18	6.00	420	1	1	18.5		1950								
SEP , 198			,	10		,,,					1710						210		260
08	1145		6	18	6.00	420	,	1	19.0		1710		7.3				310		360
DATE	TI	ME		:/L :03)	CARE DIOXI DIS SOLV (MG/ AS CO	DE ED L	HARD NESS (MG/ AS CACO	L (L)	HARI NES: NON C. BONA' (MG, CACC	S, AR- TE /L (33)	CALC DIS- SOL' (MG AS	- VED /L CA)	MAGN SIU DIS SOLV (MG/ AS M	IM, ED L IG)	SODIU DIS- SOLVI (MG, AS N	ED /L NA)	PERCI SOD (009)	LUM	
MAR ,	1961																		
15		24		0	13			60		0	43		12		330			82	
16				0	34		1	60		0	43		13		370			82	
SEP , 08		45		0	29		1	.50		0	42		11		290			80	
DATE	TI	ме	A Sor	ON	POTA SIU DIS SOLV (MG/ AS K	M, - ED L	CHLO RIDE DIS- SOLV (MG/ AS C	ED L L	SULFA DIS- SOLV (MG, AS SO	- /ED /L 04)	NITE GEI NITE DIS SOLI (MG AS I	N, ATE S- VED /L N)	NITR GEN NO2+N DIS SOLV (MG/ AS N	I, IO3 I= IED IL I)	FLUC RIDE DIS SOLV (MG/ AS E	E, S- /ED /L ?)	SILIO DIS- SOLV (MG/ AS SIO2	- /ED /L 2)	
			•		•		,	,	•			•	• • • • •	-	•		•	- •	
MAR ,					_	•				_									
15 15		24 10	1	2	6.	3	380 400			•0					•	.60 	}	3.6	
15		00					410												
15		50					430												
16			1	3	7.	1	440			•0		•25				60	7	7.3	
16		00					430												
OCT ,							460												
SEP ,		45	1	1	4.	7	380		;	1.8			<.	10		.30	10)	
DATE		ME	RESI AT 1 DEG DI SOL	80 S- VED (/L)	SOLID SUM O CONST TUENT DIS SOLV (MG/ (7030	F I- S, ED L)	IRON DIS SOLV (UG/ AS F	ED L E)	MANO NESI DIS SOLV (UG, AS N	E, S- /ED /L (N)	IODII DI: SOL' (MG, AS : (718)	S- VED /L I)	LITHI DIS SOLV (UG/ AS L	UM - VED 'L	BORG DIS SOLV (UG/ AS F (0102	ON, S- /ED /L	BROMI DIS SOLV (MG/ AS F (7187	S- /ED /L SR)	
15		24	1	110	9	90		40											
16				220		00		70											
SEP,	1983	45		952		20		00		180		120		21	c	960	2.	.0	
		-			,		,				•			-•	•				

WELL NO. 213 LOCAL NO. 04N02W28DDD4 SITE ID 345535091122104 OWNER - WAYNE ROEDIGER SPARTA AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)
FEB , 198	34									
23	1630	6	192.00	408	18.0	3720	7.0	75	320	0
DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB , 198	34									
23	1630	87	25	700	82	18	6.7	1100	<.2	.11
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
FEB , 198										
23	1630	•20	13	2250	800	140	•240	60	1500	8.2

WELL NO. 214 LOCAL NO. 04NO2W30BAC1 SITE ID 345618091150901 OWNER - CITY OF BRINKLEY NO. 8 SPARTA AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WFLL, TOTAL (FEET) (72008)	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)
SEP , 19	83 1645	6	180.00	345	18.0	/25	7.8	180	220
07	1043	б	100 •00	343	10.0	425	7.0	100	220
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)
SEP , 198	83 1645	0	5.5	3	0	.82	.17	91	98

WELL NO. 214 LOCAL NO. 04N02W30BAC1 SITE ID 345618091150901 OWNER - CITY OF BRINKLEY NO. 8 SPARTA AQUIFER - CONTINUED

DATE	TIME		SODIUM AD- SORP- TION RATIO (00931)	POTA SIU DIS SOLV (MG/ AS K	M, RID DIS ED SOL L (MG	E, .VED :/L CL)	SULFA DIS- SOLV (MG/ AS SO (0094	TE NO	GEN, 02+N03 DIS- SOLVED (MG/L AS N) 00631)	FLU RID DI SOL (MG AS (009	E, S- VED /I. F)	SILIO DIS- SOLV (MG, AS SIO (009)	- /ED /L 2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
SEP , 1	983 1645		25	1.	1 22		3	.2	<.10		•50	16	5	265
D	ATE	TIME	SUM CON TUE D SO (M	IDS, OF STI- NTS, IS- LVED G/L) 301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	NES DI SOL (UG	S- VED /L MN)	IODIDE DIS- SOLVE (MG/I AS I) (71865	- 1 ED SC - (U	THIUM DIS- DLVED UG/L S LI)	DI	B)	SOL (MG	S- VED /L BR)
	P , 1983	3 1645		240	140		22	•00)2	<4		550		.27

WELL NO. 215 LOCAL NO. 05N02W31DCB1 SITE ID 350028091145601 OWNER - CITY OF COTTON PLANT MEMPHIS AQUIFER

DATE	TIME	MEDIUM	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HC03) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
MAY , 194	16									
16 25		6 6	193.00	250	229 224	7.4 8.4	118 121	140 140	0 4	9.1 .9
DATE	TIME	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CAC03) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY , 194	¥6									
16 25		100 110	0	27	7.9 	8.7	16	.4 	2.4	1.8 1.8
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
MAY , 194	¥6 	.5	•23	•00	28	152	150	200	640	400
25		1.0	.05			172		160	830	

WELL NO. 216 LOCAL NO. 05N02W31DCB2 SITE ID 350028091145401 OWNER - CITY OF COTTON PLANT MEMPHIS AQUIFER

DATE	TIME	MEDIUM	TEMPER- ATURE (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (µS/cm) (00095)	PH (STAND- ARD UNITS) (00400)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE FET-FLD (MG/L AS HCO3) (00440)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
MAR , 19	956									
08		6	17.0	232	7.5	5	120	150	0	7.3
10		6	20.0	239	7.8	0	125	150	0	3.8
DATE	TIME	HARD- NESS (MG/L AS CAC03) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	PERCENT SODIUM (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR , 19	956									
08		100	0	30	7.3	9.0	16	•4	1.3	2.5
10		120	0	25	13	7.6	12	•3	1.2	4.5
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUR AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR , 19	956									
08		.8	•20	•30	6.3	151	130	- 0	770	
10		•0	•20	•30	19	154	150	460		20

WELL NO. 217 LOCAL NO. 04NO2W34ACD3 SITE ID 345510091113703 OWNER - J. P. SMITH NACATOCH AQUIFER

			SPE-		ALKA-	BICAR-		CARBON	
			CIFIC		LINITY	BONATE	CAR-	DIOXIDE	HARD-
			CON-	PH	FIELD	FET-FLD	BONATE	DIS-	NESS
			DUCT-	(STAND-	(MG/L	(MG/L	FET-FLD	SOLVED	(MG/L
		MEDIUM	ANCE	ARD	AS	AS	(MG/L	(MG/L	AS
DATE	TIME		(µS/cm)	NITS)	CACO3)	HC03)	AS C03)	AS CO2)	CACO3)
			(00095)	(00400)	(00410)	(00440)	(00445)	(00405)	(00900)
APR , 19	50								
09		6	53 000	7.0	41	50	0	7.9	6700
		HARD-		MAGNE-			SODIUM	POTAS-	CHLO-
		HARD- NESS,	CALCIUM	MAGNE- SIUM,	SODIUM,		SODIUM AD-	POTAS- SIUM,	CHLO- RIDE,
			CALCIUM DIS-		SODIUM,				
		NESS, NONCAR- BONATE	DIS- SOLVED	SIUM,			AD-	SIUM,	RIDE,
		NESS, NONCAR- BONATE (MG/L	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	PERCENT	AD- SORP-	SIUM, DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L
DATE	TIME	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL)
DATE	TIME	NESS, NONCAR- BONATE (MG/L	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L		AD- SORP- TION	SIUM, DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L
		NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL)
DATE APR , 19		NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	RIDE, DIS- SOLVED (MG/L AS CL)